

PLANNING AND ACCOMPLISHMENT NARRATIVE

1973

UNITED STATES DEPARTMENT OF THE INTERIOR
FISH AND WILDLIFE SERVICE
BUREAU OF SPORT FISHERIES AND WILDLIFE

OTTAWA NATIONAL WILDLIFE REFUGE
14000 WEST STATE ROUTE 2
OAK HARBOR, OHIO 43449

PERMANENT PERSONNEL

John R. Frye	Refuge Manager
James M. Carroll, Jr.	Asst. Refuge Manager
Julie E. Pepas	Clerk-typist
Alson J. Radsick	Maintenanceman
Nelson C. Dornbusch.	Maintenanceman
Wood Holbrook.	Maintenanceman

Approved, Regional Office

Submitted by:

Signature

John R. Frye

Title

Refuge Manager
Title

January 18, 1974

PART I. REFUGE HIGHLIGHTS

Flooding which occurred during this past year will remain one of the all-time "highlights" for Ottawa Refuge. Contributing factors included Lake Erie water levels averaging 2.2 feet above the long term average (1860-1972). From September on, record highs were reached each month until an average peak of 573.6 (LWD) was reached in June. This was .8 feet higher than the previous record established in 1952. A second factor was precipitation which was 14.21 inches above normal. All that was missing to cause serious flooding was a northeast wind to raise water levels at our location on Lake Erie. The first of these occurred on November 13th. Winds of up to 50 MPH prevailed from late afternoon through the afternoon of November 14th accompanied by .9" of rain and wet snow. Winds raised western Lake Erie elevation 4 feet to 575.17 with 12 foot waves lasting more than 12 hours. Severe flooding occurred from Sandusky, Ohio to Monroe, Michigan. All refuge dikes were severely damaged by wave action, and an estimated 90% of the refuge was flooded from one to four feet. The Darty Unit was completely inundated and water rose 6" on the residence floor. Personnel and family were evacuated by boat on the 14th. The Cedar Point Refuge dikes received the main onslaught of the storm and, while serious dike damage occurred, the dike served to protect several thousand acres of private lands, plus the Toledo and Oregon Water Pumping Stations, from more serious flooding. Marsh levels raised two feet during the storm from lake water overtopping the lower dikes.

Crop harvest was delayed and in some cases prevented by high water. Field-feeding waterfowl found an abundance of food available.

A less severe storm struck in March causing some additional damage. On April 9 another big storm took place. Water levels built up more slowly than during the November storm and eventually covered the entire refuge except for higher building sites. A final storm on June 17, again covering practically all of the refuge with water, made any further attempts at farming appear too hazardous to try. Only 36 acres of approximately 2,000 acres of cropland were planted. (However, as it turned out, no additional flooding occurred during 1973).

The residence at the Darty Unit was abandoned during the floods as being impractical to protect. The residence and garage were sold and removed as was the Quonset hut at Cedar Point.

Two tracts of land were added to the refuge this year. Tract No. 15, 36.50 acres owned by Ida P. Klaege and Tract No. 30, 70.52 acres owned by Fred Blausay. Both tracts are in the originally prescribed boundaries of the refuge. Only two Tracts No. 31, 75 acres owned by Herman E. Kohlman and No. 42, 40 acres owned by Richard Kaylor remain to be purchased.

PART II. REFUGE ACCOMPLISHMENTS

Major deviations occurred between planned and accomplished units for many output elements. Most of the deviation was a direct result of deterioration of facilities from storm damage and major flooding of most of the refuge during spring and early summer months. Other deviations occur because of errors and discrepancies in the print-outs. Deviations by output are discussed in the following narrative statements.

<u>Output Code</u>	<u>Discussion</u>
6-10	<u>Trails</u> : The -95% deviation from planned units is directly related to major flooding during spring peak use periods which limited access to and use of trails. Other factors are more accurate counting was possible through use of a traffic counter and demand calculations may be in error.
6-14	<u>Exhibits-Demonstrations</u> : The deviation of -95% from planned units resulted from our inability to install a exhibit-demonstration area because of major flooding of the refuge during spring and early summer months.
6-20	<u>Environmental Education - Students</u> : A -50% deviation from planned units is direct result of flooding during the peak use period in the spring and our failure to follow-up on initial contacts with local schools.
6-21	<u>Environmental Education - Teachers</u> : The +33% deviation from planned units is due to a greater demand than anticipated. We took advantage of the opportunity to host additional teacher training sessions.
6-22	<u>Professional Services</u> : The -78% deviation resulted from a change in output definition and the fact that no effort was made to solicit this activity.
6-23	<u>Fishing</u> : The -40% deviation is the result of closing the public fishing area in spring of 1973 pending approval of the Public Fishing Plan submitted May 19, 1972.
6-34	<u>Wildlife Observation</u> :
6-35	<u>Wildlife Appreciation</u> : The deviations from planned units of +111% in Code 6-34 and +123% in Code 6-35 are a result of more accurate counts since installation of the traffic counter

...the following table is given for the purpose of showing the relative importance of the various factors...

Table 1

Year	Value
1910	...
1911	...
1912	...
1913	...
1914	...
1915	...
1916	...
1917	...
1918	...
1919	...
1920	...

and closer analysis of visitors use. Also, many of the refuge visitors recorded under these activities would have used the interpretive foot trails except that access was limited by flood conditions all during spring and early summer months.

- 6-36 Photography: The +999% deviation from planned units resulted primarily from a change in output definition and reporting, and more accurate counting and analysis of visitor use.
- 6-38 Public Affairs: The -80% deviation resulted from our failure to initiate actions for having articles printed in local newspapers and for local radio spots.
- 6-50 Studies and Publications: The -100% deviation is the result of change in reporting. The decision was made to report studies when completed rather than when initiated. The two planned studies are in progress and will be reported when completed.
- 6-55 Ecological Monitoring: The -40% deviation for planned units is a result in a change in output definition since the AWP was submitted. Two programs planned under the output are now reported under 6-57, other Cooperative Programs.
- 6-56 Banding: The -33% deviation from planned outputs reflects the fact that no quotas were assigned this station for duck banding, so, the planned duck banding activities were eliminated from the program.
- 6-57 Other Cooperative Programs: A +100% deviation from planned outputs occurred because two programs originally planned under 6-55, Ecological Monitoring, were reported here as a result of a change in output definition after submission of the AWP. The one program planned, a blackbird study by Ecological Services, was not implemented because of major refuge flooding.
- 6-62 Wilderness Areas: West Sister Island NWR did not receive official Wilderness Area designation during the year.
- 6-70 Threatened Species: It was impossible to predict that a Peregrine Falcon would be observed using the refuge during the year so there were no planned outputs included in the AWP.

- 6-71 Special Recognition Species: Actual deviation from planned outputs is +75%. The planned units were not reported on the AWP due to our error. In addition the planned outputs included combined outputs for all refuge units, while outputs were reported separately for each refuge unit; Ottawa NWR, Darby Unit, Navarre Unit and Cedar Point NWR. The +75% deviation from planned outputs is the result of better and more accurate census data.
- 6-73 Waterfowl Maintenance: Planned output units were combined totals for all refuge units, while actual outputs were reported separately for each refuge unit. When reported outputs for Ottawa NWR, Darby Unit, Navarre Unit and Cedar Point NWR are combined the actual deviation from planned outputs is +2% instead of -13% as shown on the print-out.
- 6-80 Waterfowl Production: The -42% deviation in outputs is the direct result of weather conditions during the nesting season. Storms and flooding caused nest destruction and/or desertion and loss of major nesting habitat in the spring of 1973.
- 6-82 Species Donated: The -100% deviation in outputs is due to our error in that we failed to report the collections and donations of specimens for studies underway by Toledo Edison Company at the Navarre Unit. Ten specimens were donated during the year, as planned.
- 6-94 Fur-bearers: There is an error in the print-out. The decimal was omitted from accomplished units (dollars) so the actual deviation from planned units is +229%. This occurred because the fur harvest was greater than anticipated and furs sold for near record high prices.
- 6-98 Other Economic Benefits: There is an error in the print-out. The decimal was omitted from accomplished units (dollars), and all reported outputs are not included in the total. Actual deviation of -37% from planned outputs resulted from harvest and sale of fewer turtles than had been anticipated.

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WILDLIFE REFUGES

OTTAWA
03-3533-00

PLANNING AND ACCOMPLISHMENT REPORT
FY-73
PART I - FINANCIAL

DEVIATION (+/-%)

*****ACCOMPLISHED*****

*****PLANNED*****

WE CODE	WORK ELEMENT	WE UNITS	UNITS	FUNDS	PMM	UNITS	FUNDS	PMM	UNITS	FUNDS	PMM
---------	--------------	----------	-------	-------	-----	-------	-------	-----	-------	-------	-----

CAPITAL INVESTMENT

STRUCTURES & IMPROVEMENTS -WATER

1-53 S&I-WATER-SANITAT'N SER SANIT SITE

ENGINEERING SERVICES

1-71 ENG SER-PLANNING STUDY

TOTAL CAPITAL INVESTMENT

TOTAL

OPERATION AND MAINTENANCE

OPERATIONS

2-01	OPERATION-ANALYSIS	NO. TESTS	24	500	.1							
2-02	OPERATION-SURVEYS	NO. SURVEY	51	2,800	4.5							
2-03	OPERATION-FARMING	A. FARMED	2,000	7,500	4.2							
2-04	OPERATION-GRASSLD PRAC	A. TREATED	60	500	.1							
2-05	OPERATION-PEST PLY CON	A. TREATED	3	500	.1							
2-07	OPERATION-WAT LEVEL MGT	A. MANAGED	3,120	700	.8							
2-09	OPERATION-TREE & SHRUB	A. PLANTED	5	1,200	1.0							
2-11	OPERATION-ANIMAL CONT	NO. AN CON	5,000	3,200	2.4							
2-12	OPERATION-DISFASE CONT	NO. PROGMS	1,200	1,700	1.6							
2-14	OPERATION-BIRD MARKING	NO. MARKED	12	500	.1							
2-16	OPERATION-ANIM COLLECT	NO. COLCTD	13	2,800	1.3							
2-19	OPERATION-ENVR R & M	NO. PROJECT	4	2,900	2.5							
2-20	OPERATION-LITTER CONT	NO. PROJECT	1,500	500	.5							
2-21	OPERATION-PUBLIC INQ	NO. RESPON	110	3,600	3.5							
2-22	OPERATION-PROTECTION	AS APP		3,200	3.0							
2-23	OPERATION-BUREAU ACT	NO. PROJECT										
2-25	OPERATION-SPECIAL SER	NO. PROJECT										
2-26	OPERATION-OTH OPERATION	AS APP										
2-27				1,200	.5							
2-40	SUP FAC-BLDG-QTRS	SQ. FT	6,400	7,600	3.0							
2-41	SUP FAC-BLDG-GEN (JUN-RG)	SQ. FT	23,338	11,500	11.0							
2-42	SUP FAC-BLDG-RECREATION	SQ. FT	200	400	.5							
2-45	SUP FAC-SCI-RECREATION	AS APP		3,300	2.9							

SUPPORTING FACILITIES

2-40	SUP FAC-BLDG-QTRS	SQ. FT	6,400	7,600	3.0							
2-41	SUP FAC-BLDG-GEN (JUN-RG)	SQ. FT	23,338	11,500	11.0							
2-42	SUP FAC-BLDG-RECREATION	SQ. FT	200	400	.5							
2-45	SUP FAC-SCI-RECREATION	AS APP		3,300	2.9							

PLANNING AND ACCOMPLISHMENT REPORT
 FY-73
 PART I - FINANCIAL

OTTAWA
 03-3533-00

WE CODE	WORK ELEMENT	WE UNITS	UNITS	FUNDS	PMM	UNITS	FUNDS	PMM	UNITS	FUNDS	PMM	*DEVIATION (+/-%)*
*****PLANNED*****												
2-46	SUP FAC-S&I-TRANS NON-R	AS APP	10	7,100	6.5	764	0.9	764	0.9	-89%	-86%	
2-47	SUP FAC-S&I-WATER	AS APP	80	17,300	20.0	8,705	8.6	8,705	8.6	-50%	-57%	
2-49	SUP FAC-S&I-OTHER	AS APP		3,400	3.9	3,107	3.8	3,107	3.8			
*****ACCOMPLISHED*****												
SUPPORTING SERVICES												
2-60	SUP SFR-PLANNING	NO. PLANS	10	4,100	3.7	3,159	2.4	3,159	2.4	-23%	-35%	
2-61	SUP SFR-TRAINING	HRS TRAINING	80	500	.5					-100%	-100%	
2-62	SUP SER-ADMINISTRATION	AS APP		300	.2	21,791	21.4	21,791	21.4	+999%	+999%	
SUPPORTING EQUIPMENT												
2-70	SUP EQUIP-AIRCRAFT	HRS OPERTD	45,000	6,200	1.6	22	3.0	22	3.0	+999%	+88%	
2-71	SUP EQUIP-AUTO EQUIP	MI OPERTD	200	1,100	.1	8,010	1.1	8,010	1.1	+29%	+29%	
2-72	SUP EQUIP-FARM EQUIP	HRS OPERTD	200	2,300	.4	422	.3	422	.3	-100%	-82%	
2-73	SUP EQUIP-HEAVY EQUIP	HRS OPERTD	50	100	.1	90	.1	90	.1	-100%	+999%	
2-74	SUP EQUIP-WATERCRAFT	HRS OPERTD	250	100	.1	2,022	1.8	2,022	1.8	+999%	+999%	
2-75	SUP EQUIP-OTH MOTOR EQ	HRS OPERTD	8	400						-100%	-100%	
2-76	SUP EQUIP-COMM EQUIP	NO. SETS										
TOTAL OPERATIONS & MAINTENANCE												
				99,000	80.5	75,539	62.8	75,539	62.8	-24%	-22%	
EXPENDITURES BY PLANNING ALLOWANCE												
3-00	ACTIVITY-0112	N/A		77,000						-100%	-100%	
3-01	ACTIVITY-0113	N/A		96,000						-100%	-100%	
3-02	ACTIVITY-0115	N/A		3,000						-100%	-100%	
3-15	ACTIVITY-1116	N/A				75,539		75,539		+999%	+999%	
3-16	ACTIVITY-2720	N/A				75,539		75,539		+999%	+999%	

PLANNING AND ACCOMPLISHMENT REPORT
FY-73
PART II - OUTPUT PRODUCTION

OTTAWA
03-3533-00

Note: None of these annual printouts include 12/72 outputs, only updates are in red

WE CODE	OUTPUT ELEMENT	OE UNITS	PLANNED UNITS	ACCOMPLISHED UNITS	ACCOMPLISHED RBU'S	DEVIATION
WILDLIFE-WILDLANDS INTERPRETATION						
6-10	TRAILS	ACT HOURS	150,000	8,191	465,800	-95%
6-14	EXHIBITS - DEMONSTRATIONS	ACT HOURS	64,000	2,984	298,400	-95%
6-15	OTHER PROGRAMS	ACT HOURS	5,000	5,605	280,250	+12%
ENVIRONMENTAL EDUCATION						
6-20	STUDENTS	ACT HOURS	600	303	45,450	-50%
6-21	TEACHERS	ACT HOURS	200	266	66,500	+33%
6-22	PROFESSIONAL SERVICES	ACT HOURS	100	22	5,500	-78%
WILDLIFE-WILDLANDS RECREATION						
6-32	FISHING	ACT HOURS	4,000	2,400	60,000	-43%
6-34	WILDLIFE OBSERVATION	ACT HOURS	2,500	5,267	263,350	+111%
6-35	WILDLIFE APPRECIATION	ACT HOURS	1,800	4,008	60,120	+123%
6-36	PHOTOGRAPHY	ACT HOURS	200	2,632	131,600	+998%
6-38	PUBLIC AFFAIRS	PROGRAMS	25	5	3,000	-80%
PROFESSIONAL SERVICES						
6-50	STUDIES & PUBLICATIONS	EACH PROGRAM	2	3	220,000	-100%
6-55	ECOLOGICAL MONITORING	PROGRAM	5	2	62,500	-43%
6-56	BANDING	PROGRAM	3	2	200,000	-33%
6-57	OTHER COOPERATIVE PRGMS	PROGRAM	1	2	200,000	+100%
ENVIRONMENTAL PRESERVATION						
6-60	NATURAL ENVIRNMT PRESRVD	ACRE	8,220	7,845	156,906	-100%
6-62	WILDERNESS AREAS	AREA	1			
WILDLIFE						
6-70	THREATENED SPECIES	USE-DAY	1,539,300	2,688,399	1,708,937	+99%
6-71	SPECIAL RECOGNITION	USE-DAY	269	1,919,949	3,500	+999% (+75%)
6-72	WILDLIFE DIVERSITY	NO. SPECS	5,550,000	334	66,800,000	+24%
6-73	WATERFOWL MAINTENANCE	USE DAYS	1,050	4,811,460	4,811,460	-13% +21%
6-80	WATERFOWL PRODUCTION	EA. ANIMAL	10	609	442,200	-42%
6-82	SPECIES DONATED	EA. ANIMAL		10	20,000	
ECONOMIC BENEFITS						
6-90	CROPLANDS	FA. ANIMAL DOLLARS	4,000	1,317,713	1,237,642	+99%
6-94	FUR BEARERS	DOLLARS	3,745	218,142	1,237,642	+99%
6-99	OTHER (WATER FEES ETC)	DOLLARS				+99%
8-13	TOTAL RECOGNITIONAL ANNUAL BENEFITS	RBU'S	90,092,000	90,878,700	75,377,023	-16%

Handwritten notes:
 2,688,399 (Duck Hawk)
 1,919,949
 334
 4,811,460
 609
 10
 5,660,640

Handwritten notes:
 No Decimals 1,237,642
 -195.00 from our report
 75,377,023 16,602,426

WATERFALL PRODUCTION
SPECIAL

NO. 1
MS. B. 1

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C

PLANNING AND ACCOMPLISHMENT REPORT
 FY-73
 PART II - OUTPUT PRODUCTION

CEDAR POINT
 03-3533-01

WE CODE	OUTPUT ELEMENT	OE UNITS	PLANNED UNITS	ACCOMPLISHED UNITS	ACCOMPLISHED RBU'S	DEVIATION
6-71	SPECIAL RECOGNITION			332,250	166,125	+999%
6-73	WATERFOWL MAINTENANCE			650,640	650,640	+999%
8-10	PROGRAM ANALYSTS					
	TOTAL ANNUAL BENEFITS				816,765	+999%

WILDLIFE

PLANNING AND ACCOMPLISHMENT REPORT
 FY-73
 PART I - FINANCIAL

DARBY MARSH
 03-3533-03

WE	WORK ELEMENT	WE UNITS	UNITS	FUNDS	PMM	*****ACCOMPLISHED*****	FUNDS	PMM	*DEVIATION (+/-%)*
	OPERATION AND MAINTENANCE								
	OPERATIONS								
2-20	OPERATION-LITTER CONT					18			+99%
	TOTAL OPERATIONS AND MAINTENANCE					18			+99%
	TOTAL								
	EXPENDITURES BY PLANNING ALLOWANCE								
3-15	ACTIVITY-1116					18			+99%
3-16	ACTIVITY-2720					18			+99%

PLANNING AND ACCOMPLISHMENT REPORT
 FY-73
 PART II - OUTPUT PRODUCTION

DARBY MARSH
 03-3533-03

WE CODE	OUTPUT ELEMENT	OE UNITS	PLANNED UNITS	ACCOMPLISHED UNITS	ACCOMPLISHED RBU'S	DEVIATION
	WILDLIFE					
6-71	SPECIAL RECOGNITION			180,900	90,450	+999%
6-73	WATERFOWL MAINTENANCE	USE-DAY USE-DAY		101,400	101,400	+999%
8-10	PROGRAM ANALYSIS					
	TOTAL ANNUAL BENEFITS				191,850	+999%

Ottawa

NATIONAL WILDLIFE REFUGE SYSTEM
PUBLIC USE REPORT

VISITS BY MONTH

OTTAWA
02-3533-00-DTW

JUL-72 AUG-72 SEP-72 OCT-72 NOV-72 DEC-72 JAN-73 FEB-73 MAR-73 APR-73 MAY-73 JUN-73 12 MONTH TOTAL

ACTIVITY NAME	JUL-72	AUG-72	SEP-72	OCT-72	NOV-72	DEC-72	JAN-73	FEB-73	MAR-73	APR-73	MAY-73	JUN-73	12 MONTH TOTAL
INTERPRETATION													
WILD TRAILS-NONMOTOR SELF-GUIDED EXHIBITS-DEMONSTRATIONS CONDUCTED	700✓	500✓	600✓	1000✓	525✓	200✓	25✓	150✓	596✓	915✓	1100✓	432✓	6713
OTHER PROGRAMS			800✓	771✓	218✓					335✓	480✓	50✓	2434
EDUCATION			125✓	153✓	3234✓		3375✓	150✓	4156✓	105✓	152✓	12✓	11462
STUDENTS	25✓	15✓											84✓
TEACHERS					22✓								17✓
PROF SERVICES RENDERED	4✓				3✓					4✓			39
RECREATION-WILDLIFE WILDLANDS													15
FISHING													
WARMWATER WILDLIFE OBSERVATION	400✓	400✓	400✓										1200
FOOT AUTO WILDLANDS APPRECIATION	25✓	30✓	25✓	25✓	650✓	250✓	25✓	50✓	894✓	870✓	816✓	648✓	4308
AUTO OTHER PHOTOGRAPHY	1500✓	1500✓	1500✓	1530✓	1516✓	600✓	200✓	300✓	2086✓	2034✓	1902✓	1512✓	11680
TOTAL INTERPRETATION	700	500	1525	1924	3977	200	3400	300	4752	1355	1732	494	2085
TOTAL EDUCATION	400	400	29	15	25			4			105		170
TOTAL FISHING	1530	1535	1530	3085	3897	1480	430	655	5364	5288	4892	3808	35574
TOTAL OTHER W/W RECREATION	2630	2435	3484	5024	7899	1680	3830	955	10116	6647	6729	4382	55811
TOTAL WILDLIFE ORIENTED	2630	2435	3484	5024	7899	1680	3830	955	10116	6647	6729	4382	55811
TOTAL NON-WILDLIFE ORIENTED	2630✓	2435✓	3459✓	4140✓	4572✓	1680	455	855✓	6000✓	6200✓	6100✓	4382	42908
TOTAL PUBLIC USE													
NO. VISITS TO REFUGE													

12/72 figures estimated

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WILSON COLLEGE

Ottawa Trail

NATIONAL WILDLIFE REFUGE SYSTEM
PUBLIC USE REPORT

ACT HRS BY MONTH

OTTAWA
03-3533-00-0TW

JUL-72 AUG-72 SEP-72 OCT-72 NOV-72 DEC-72 JAN-73 FEB-73 MAR-73 APR-73 MAY-73 JUN-73 TOTAL

ACTIVITY NAME
INTERPRETATION

WILDL TRAILS-NONMOTOR	875	625	750	1250	655	250	332	200	745	1144	1375	540	2441	8191
SELF GUIDED														
EXHIBITS-DEMONSTRATIONS CONDUCTED	1600	575	163											2984
OTHER PROGRAMS	125	190	300											5605
EDUCATION														
STUDENTS	75	60												303
TEACHERS	66													256
PROF SERVICES RENDERED	6													22

RECREATION-WILDLIFE WILDLANDS

FISHING	800	800	800											2400
WATERWATER														
WILDLIFE OBSERVATION	100	180	100	100	325	125	25	50	447	435	408	324	2619	2684
FOOT				385	379	150	50	75	521	510	475	378	2923	2725
AUTO														
WILDLANDS APPRECIATION	250	250	375	385	379	150	50	75	521	510	475	378	3198	2644
AUTO														
OTHER	10	10	10		430	60	10	10	596	580	544	432	2697	2632
PHOTOGRAPHY														

TOTAL INTERPRETATION	875	625	2475	2015	1118	250	312	500	4901	1484	1887	588	17030	16788
TOTAL EDUCATION			81	60	74					4	372		591	2400
TOTAL FISHING	800	800	800											
TOTAL OTHER W/W RECREATION	360	440	485	870	1513	485	135	210	2085	2395	1902	1512	12272	11227
TOTAL WILDLIFE ORIENTED	2035	1865	3841	2945	2705	735	447	710	6986	3883	4161	2100	37413	31678

TOTAL NON-WILDLIFE ORIENTED

TOTAL PUBLIC USE	2035	1865	3841	2945	2705	715	447	710	6986	3883	4161	2100	32413	31678
NO. VISITS TO REFUGE	2630	2435	3459	4140	4572	735	455	855	6000	6200	6100	4382	41963	41228

12/72 figures estimated

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Ottawa, Ont

NATIONAL WILDLIFE REFUGE SYSTEM
REPORT OF MISCELLANEOUS OUTPUTS
FY-73

OTTAWA
03-3533-00-0TW

TYPE OF OUTPUTS	UNITS	FY TOTAL
PROFESSIONAL SERVICES		
ECOLOGICAL MONITORING		
BY REFUGE PERSONNEL	PROGRAM	3 ✓
BANDING		
BY REFUGE PERSONNEL	PROGRAM	2 ✓
OTHER COOPERATIVE PROGM	PROGRAM	2 ✓
ENVIRONMENTAL PRESERVATION		
NATURAL ENVIROMTS PRES	ACRE	7,845 ✓
MISCELLANEOUS WILDLIFE OUTPUTS		
WILDLIFE DIVERSITY	NO. SPECS	334 ✓

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FEB 23 1974
OTTERHEAD NATIONAL
WILDLIFE REFUGE

Attaine M

NATIONAL WILDLIFE REFUGE SYSTEM
WILDLIFE USE REPORT
(EXCLUDING WATERFOWL)

FY-73

OTTAWA
03-3533-00-0TW

*****USE DAYS*****
LINE CODE JUL-SEP 72 OCT-DEC 72 JAN-MAR 73 APR-JUN 73 FY TOTAL PRODUCED HARVESTED POPULATION DATE

SPECIES NAME

OTHER BIRD-MIG & RESDNT

NON-OUTPUT SPECIES

RING-NECKED PHEASANT

COMMON CROW

NON-OUTPUT SPECIES

DESERT COTTONTAIL

MUSKRAT

RED FOX

RACCOON

WEASEL

WEINK

STRIPED SKUNK

WHITE-TAILED DEER

NON-OUTPUT SPECIES

SNAPPING TURTLE

THREATENED SPECIES

ENDANGERED

AMERICAN PERRERINE FALCON

SPECIAL RECOGNITION

BIRDS

MOURNED DOWIE

PIED-BILLED GREBE

GREAT BLACK-BACKED GULL

HEMPING GULL

PINK-BILLED GULL

FRANKLIN'S GULL

SCAPARIN'S GULL

CASPIAN TERN

POPSY'S TERN

COMMON TERN

BLACK TERN

DOUBLE-CRESTED CORMORANT

AMERICAN BITTERN

LEAST BITTERN

GREAT BLUE HERON

COMMON EGRET

LITTLE BLUE HERON

LINE CODE	JUL-SEP 72	OCT-DEC 72	JAN-MAR 73	APR-JUN 73	FY TOTAL	PRODUCED	HARVESTED	POPULATION	DATE
071 3091	0	0	0	0	110000	100	0	350	06/00
071 4880	0	0	0	0	60000	0	0	1500	02/00
072 8055	0	0	0	0	0	0	1	200	00/00
072 8235	0	0	0	0	0	0	9281	15000	00/00
072 8290	0	0	0	0	0	0	1	50	00/00
072 8355	0	0	0	0	0	0	41	300	00/00
072 8380	0	0	0	0	0	0	0	5	00/00
072 8400	0	0	0	0	3	0	-3	75	00/00
072 8430	0	0	0	0	0	0	0	100	00/00
072 8540	0	0	0	0	9000	0	0	25	05/00
073 9200	0	0	0	0	0	0	1581	0	
701 3561	7	0	0	0	7	0	0	1	09/00
711 0050	55	60	60	60	155	0	0	0	05/00
711 0060	12300	1470	1470	1470	13845	0	0	0	09/00
711 0470	7500	900	900	900	10650	0	0	90	07/00
711 0510	60000	2250	2250	2250	185400	0	0	120000	05/15
711 0540	80000	59400	59400	59400	211000	0	0	0	05/15
711 0590	0	0	0	0	30	0	0	1	05/15
711 0600	0	0	0	0	45600	0	0	1500	05/15
711 0640	3000	0	0	0	3000	0	0	50	08/00
711 0690	9000	0	0	0	9000	0	0	150	09/00
711 0700	9000	0	0	0	11400	0	0	150	08/00
711 0770	1500	0	0	0	3450	0	0	63	05/15
711 1200	28	0	0	0	28	0	0	2	09/00
711 1900	0	100	100	100	310	0	0	5	06/01
711 1910	0	0	0	0	450	0	0	11	06/01
711 1940	9200	175	175	175	213675	0	0	3500	06/01
711 1960	46000	60	60	60	109360	0	0	1600	06/01
711 2000	0	0	0	0	60	0	0	2	05/15

**all these crossed out should be 11/05*

114

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NATIONAL WILDLIFE REFUGE SYSTEM
WILDLIFE USE REPORT
(EXCLUDING WATERFOWL)

FY-73

OTTAWA
03-3553-00-0TW

SPECIES NAME	LINE CODE	*****USE DAYS*****					FY-NO. PRODUCED	FY-NO. HARVESTED	FY-PEAK POPULATION	DATE
		JUL-SEP 72	OCT-DEC 72	JAN-MAR 73	APR-JUN 73	FY TOTAL				
CATTLE EGRET	711 2001	7	0	0	0	90✓	0	3✓	04/15✓	
GREEN HERON	711 2010	4700✓	0	0	0	4650✓	0	125✓	06/15✓	
BLACK-CROWNED NIGHT HERON	711 2020	5000✓	0	0	0	66000✓	0	1800✓	06/01✓	
VIRGINIA RAIL	711 2120	400✓	0	45✓	0	0	0	5✓	08/00✓	
SOOTY	711 2140	400✓	0	0	0	1110✓	0	1✓	08/00✓	
COMMON GALLINULE	711 2190	4000✓	0	0	0	1050✓	0	4560	08/00✓	
AMERICAN WOODCOCK	711 2280	1000✓	0	0	0	900✓	0	15✓	07/00✓	
COMMON SNIFE	711 2300	1500✓	0	0	0	0	0	20✓	07/00✓	
SHORT-BILLED DOWITCHER	711 2310	0	0	0	0	90✓	0	3✓	06/15✓	
KNOT	711 2340	150✓	0	0	0	30✓	0	5✓	08/00✓	
PECTORAL SANDPEPER	711 2390	0	0	0	0	1020✓	0	34✓	05/15✓	
DUNLIN	711 2420	0	0	0	0	1200✓	0	34✓	05/15✓	
SEMIPALMATED SANDPIPER	711 2460	150✓	0	0	0	0	0	5✓	08/00✓	
SANDPEPING	711 2480	750✓	0	0	0	0	0	25✓	08/00✓	
GREATER YELLOWLEGS	711 2540	0	0	0	0	360✓	0	8✓	05/15✓	
LESSER YELLOWLEGS	711 2550	1000✓	0	0	0	5160✓	0	150✓	05/15✓	
SOLITARY SANDPIPER	711 2560	14✓	0	0	0	180✓	0	6✓	05/15✓	
SPOTTED SANDPIPER	711 2630	7500✓	0	0	0	1350✓	0	50✓	07/00✓	
BLACK-BELLIED PLOVER	711 2700	0	0	0	0	570✓	0	13✓	05/15✓	
AMERICAN GOLDEN PLOVER	711 2720	0	0	0	0	210✓	0	745	05/15✓	
KILLDEER	711 2750	18000✓	0	300✓	0	4500✓	0	250✓	07/00✓	
SEMIPALMATED PLOVER	711 2740	0	0	0	0	30✓	0	2000✓	05/01✓	
MOURNING DOVE	711 3160	0	0	0	0	0	0	1✓	05/15✓	
TURKEY VULTURE	711 3250	0	0	0	0	720✓	0	8✓	04/15✓	
WASH HAWK	711 3310	400	0	180✓	0	180✓	0	5	08/00✓	
GOSAWK	711 3340	0	0	30✓	0	0	0	1✓	02/00✓	
RED-TAILED HAWK	711 3370	1000✓	0	2250✓	0	180✓	0	1518	05/00✓	
RED-SHOULDERED HAWK	711 3590	0	0	60✓	0	60✓	0	2✓	03/00✓	
BROAD-WINGED HAWK	711 3430	0	0	0	0	3000✓	0	100✓	04/15✓	
BURGH-LESCED HAWK	711 3470	0	0	60✓	0	0	0	2✓	04/15✓	
BALD EAGLE	711 3520	350✓	0	270✓	0	180✓	0	4✓	08/00✓	
SPARROW HAWK	711 3600	1500✓	0	360✓	0	240✓	0	20✓	08/00✓	
SCREECH OWL	711 3730	450✓	0	450✓	0	450✓	0	5✓	08/00✓	
GRAY HORNEED OWL	711 3750	450✓	0	900✓	0	900✓	0	10✓	02/15✓	
CONTROL TOTALS	997 0000	414091	0	132025	0	464340	100	15755	00/00	
TOTAL		828182	0	264059	0	928680	200	21810		

* 561,040 SP. RECORDED USE DAYS

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Ottawa Run

NATIONAL WILDLIFE REFUGE SYSTEM
WATERFOWL USE DAYS

SPECIES NAME	JUL 1972 - SEP 1972		OCT 1972 - DEC 1972		JAN 1973 - MAR 1973		APR 1973 - JUN 1973		12 MONTH TOTAL
OTTAWA									
03-3533-00-57A									
SPECIAL RECOGNITION									
BIRDS									
AMERICAN COOT	70,500		633,000		12,000		54,000		769,500
WATERFOWL MAINTENANCE									
SWANS									
WHISTLING SWAN	0		3,450		6,300		450		10,200
GOOSE									
LESSER-SNOW GOOSE	30		4,200		0		0		4,230
CANADA GOOSE	124,500		792,000		660,000		82,500		1,659,000
RYEBLACK GOOSE	0		0		0		60		60
DUCKS									
COMMON MERGANSER	0		4,500		49,500		8,700		62,700
RED-BELLIED MERGANSER	0		900		150		300		1,350
HORNED MERGANSER	180		2,730		1,200		150		4,260
WALLBROOK	411,000		1,038,000		204,000		74,250		1,727,250
BLACK DUCK	63,000		522,600		177,000		49,500		812,100
GOAWALL	3,000		29,700		2,250		540		35,490
AMERICAN WIDGEON	22,550		54,300		21,000		7,800		105,750
GREEN-WINGED TEAL	4,950		18,000		3,000		450		26,400
BLUE-WINGED TEAL	72,750		10,800		12,300		26,250		121,800
SHOVELER	5,400		10,500		7,500		12,600		36,000
PINTAIL	8,100		31,500		13,500		720		53,820
WOOD DUCK	45,000		19,200		3,000		12,000		79,200
RED WING	0		3,300		10,500		1,800		15,600
CANVASBACK	0		4,350		4,500		150		9,000
LESSER SCAUP	0		3,600		4,500		750		8,850
RING-NECKED DUCK	0		2,700		3,000		660		6,360
COMMON GOLDENEYE	0		2,100		2,700		0		4,800
BUFFLEHEAD	0		2,100		3,000		210		5,310
RUDDY DUCK	450		15,600		4,500		1,350		21,900
TOTAL SWANS	0		3,450		6,300		450		10,200
TOTAL GOOSE	124,530		796,200		660,000		82,560		1,663,290
TOTAL DUCKS	636,480		1,776,480		526,800		198,210		3,137,970
TOTAL WATERFOWL	761,010		2,576,130		1,193,100		281,220		4,811,460

does not include 12/72

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NATIONAL WILDLIFE REFUGE SYSTEM
WATERFOWL USE DAYS

CEDAR POINT

03-8533-01-CCP

SPECIES NAME

JUL 1972-
SEP 1972

OCT 1972-
DEC 1972

JAN 1973-
MAR 1973

APR 1973-
JUN 1973

12 MONTH
TOTAL

SPECIAL RECOGNITION

BIRDS

AMERICAN COOT

294,000

1,500

18,000

332,250

WATERFOWL MAINTENANCE

SWANS

WHISTLING SWAN

930

330

150

1,410

GEES

CANADA GOOSE

5,250

450

3,000

10,050

DUCKS

COMMON Merganser

0

3,300

1,500

4,800

Mallard

294,750

2,250

3,000

302,700

Black Duck

146,400

2,250

600

151,350

Greenall

10,500

0

150

11,650

AMERICAN WEDGEON

62,750

4,500

150

69,100

CAN-WINGED TEAL

6,750

0

120

6,870

BLUP-WINGED TEAL

3,300

450

3,000

11,550

SHOVALLER

6,900

750

600

8,250

PINTAIL

22,200

0

150

22,650

WHITE DUCK

4,800

150

5,400

20,400

WILD WING

750

450

150

1,350

CANVASBACK

750

150

60

960

LESSER SCAUP

1,200

2,250

150

3,600

RING-BILLED DUCK

450

450

150

1,050

COMMON GOLDENEYE

0

450

0

450

WILLY DUCK

21,300

0

450

24,450

TOTAL SWANS

930

330

150

1,410

TOTAL GEES

5,250

450

3,000

10,050

TOTAL DUCKS

580,800

17,400

15,630

639,180

TOTAL WATERFOWL

586,980

18,180

18,780

650,640

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NATIONAL WILDLIFE REFUGE SYSTEM
WATERFOWL USE DAYS

DARBY MARSH
03-3522-73-004

SPECIES NAME	JUL 1972- SEP 1972	OCT 1972- DEC 1972	JAN 1973- MAR 1973	APR 1973- JUN 1973	12 MONTH TOTAL
SPECIAL RECOGNITION					
BEARDS					
AMERICAN COOT	24,900	156,000	0	0	180,900
WATERFOWL MAINTENANCE					
SWANS					
WHISTLING SWAN	0	150	0	0	150
GOOSE					
CANADA GOOSE	3,000	1,500	0	0	4,500
DUCKS					
WILLOW	3,900	4,050	0	0	7,950
BLACK DUCK	600	3,900	0	0	4,500
WOODWATER	0	1,800	0	0	1,800
AMERICAN WINGED	30,000	27,600	0	0	57,600
GREEN-WINGED TEAL	0	1,650	0	0	1,650
BLUE-WINGED TEAL	1,800	150	0	0	1,950
SHOVEL	0	450	0	0	450
PINTAIL	0	1,500	0	0	1,500
WINGS DUCK	14,400	3,450	0	0	17,850
LESSER SCAUP	0	150	0	0	150
RIAN-WINGED DUCK	0	750	0	0	750
MUSKY DUCK	0	600	0	0	600
TOTAL GOOSE	3,000	1,500	0	0	4,500
TOTAL DUCKS	50,700	46,050	0	0	96,750
TOTAL WATERFOWL	55,700	47,700	0	0	103,400

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NATIONAL WILDLIFE REFUGE SYSTEM

WATERFOWL USE DAYS

NAVARRE

33-3522-04-0VR

SPECIES NAME	JUL 1972- SEP 1972	OCT 1972- DEC 1972	JAN 1973- MAR 1973	APR 1973- JUN 1973	12 MONTH TOTAL
SPECIAL RECOGNITION					
BIRDS					
AMERICAN COOT	25,050	167,250	750	12,250	195,300
WATERFOWL MAINTENANCE					
SWANS					
WHISTLING SWAN	0	0	900	30	930
GEESE					
CANADA GOOSE	210	150	4,500	600	5,460
DUCKS					
COMMON Merganser	0	0	900	300	1,200
Mallard	2,700	5,550	3,000	1,650	12,900
Black Duck	750	8,250	4,500	450	13,950
Gadwall	0	2,850	0	0	2,850
American Widgeon	4,500	31,500	600	150	36,750
Green-winged Teal	450	900	0	0	1,350
Blue-winged Teal	3,900	600	1,500	900	6,900
Snowdrake	150	750	150	150	1,200
Pintail	150	3,600	300	0	4,050
Wood Duck	3,000	1,200	300	1,350	5,850
Red Head	0	450	150	0	600
Canvasback	0	0	300	0	300
Lesser Scaup	150	600	0	0	750
Ring-necked Duck	300	600	0	0	900
Ruddy Duck	0	1,200	0	0	1,200
TOTAL SWANS	0	0	900	30	930
TOTAL GEESE	210	150	4,500	600	5,460
TOTAL DUCKS	16,050	58,050	11,700	4,950	90,750
TOTAL WATERFOWL	16,260	58,200	17,100	5,580	97,140

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WILL
E

Oliver Hawk

NATIONAL WILDLIFE REFUGE SYSTEM
PEAK MONTHLY WATERFOWL POPULATIONS

SPECIES NAME	JUL 72	AUG 72	SEP 72	OCT 72	NOV 72	DEC 72	JAN 73	FEB 73	MAR 73	APR 73	MAY 73	JUN 73
SPECIAL RECOGNITION BIRDS												
AMERICAN COOT	100	100	5425	16650	16650	16650	0	0	800	800	1500	5000
WATERFOWL MAINTENANCE SWANS												
WHISTLING SWAN	0	0	0	10	230	0	0	14	250	30	0	0
BIRDS												
LESSER-SNOW GOOSE	0	0	5	100	120	0	0	0	0	0	0	0
CANADA GOOSE	500	1400	3650	16550	16550	0	0	10000	12000	1800	1000	1000
BARNTABLE GOOSE	0	0	0	0	0	0	0	0	0	1	1	0
DUCKS												
COMMON MERGANSER	0	0	0	0	300	0	0	1400	900	400	100	0
RED-BELLIED MERGANSER	0	0	0	0	65	0	0	0	10	20	0	0
HOODED MERGANSER	0	5	5	5	175	0	0	0	80	15	0	0
MALLARD	3000	3000	17000	16990	28000	0	0	3000	7500	3000	90	900
BLACK DUCK	50	50	4500	11750	11250	0	0	2800	6000	2700	35	25
GARGOYLE	0	0	200	1300	1620	0	0	0	150	30	5	1
AMERICAN WIDGEON	10	20	1600	1590	1155	0	0	0	1300	500	0	10
GREEN-WINGED TEAL	25	25	250	500	755	0	0	0	250	25	0	10
BLUE-WINGED TEAL	100	100	5800	660	50	0	0	0	850	1400	100	100
SHOVELER	15	15	250	360	255	0	0	0	600	600	50	0
PINTAIL	10	10	450	935	1905	0	0	0	500	30	10	0
MUD DUCK	450	450	1175	1175	80	0	0	0	300	300	100	100
RED HEAD	0	0	0	120	120	0	0	0	650	100	20	5
CALVA BACK	0	0	0	55	165	0	0	0	200	15	0	0
LESSER SCAUP	0	0	0	75	150	0	0	0	200	30	15	0
RING-BECKED DUCK	0	0	0	30	125	0	0	0	300	30	5	0
COMMON GOLDENEYE	0	0	0	40	100	0	0	0	100	0	0	0
BUFFLEHEAD	0	0	0	0	120	0	0	0	250	15	5	0
RUDDY DUCK	5	5	5	525	525	0	0	0	350	50	25	0
TOTAL SWANS	0	0	0	10	230	0	0	14	250	30	0	0
TOTAL GOOSE	550	1400	3655	16650	16670	0	0	10000	12000	1800	1000	1000
TOTAL DUCKS	3665	3680	31235	36080	46915	0	0	7200	20490	9260	560	1151
TOTAL WATERFOWL	4215	5380	34890	52740	63815	0	0	17214	32740	11091	1561	2151

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NATIONAL WILDLIFE REFUGE SYSTEM
PEAK MONTHLY WATERFOWL POPULATIONS

CEDAR POINT

03-3533-01-CCP

SPECIES NAME	JUL 72	AUG 72	SEP 72	OCT 72	NOV 72	DEC 72	JAN 73	FEB 73	MAR 73	APR 73	MAY 73	JUN 73
AMERICAN COOT	75	75	1400	10000	10000	0	0	0	150✓	300✓	2500✓	2500✓
WATERFOWL MAINTENANCE												
SWANS									15✓	20✓	0	0
WHISTLING SWAN	0	0	0	1	78	231	2✓	0	40✓	40✓	40✓	43✓
GEESSE												
CANADA GOOSE	10	10	50	150	150	0	0	0	200✓	75✓	0	0
DUCKS												
CORWIN MERGANSER	0	0	0	0	0	0	100✓	0	50✓	30✓	0	0
MALLARD	0	30	30	7000	7000	0	100✓	0	75✓	0	0	0
BLACK DUCK	5	5	125	4000	4000	0	50✓	0	0	0	0	0
GADWALL	0	0	0	750	200	0	0	0	0	5✓	0	0
AMERICAN WIDGEON	0	0	200	3000	3000	0	0	0	200✓	15✓	0	0
GREEN-WINGED TEAL	0	0	0	250	350	0	0	0	0	10✓	0	0
SLEET-WINGED TEAL	25	25	250	250	0	0	0	0	45✓	50✓	40✓	43✓
SHOVELER	0	0	0	300	300	0	0	0	35✓	30✓	0	0
PINTAIL	0	0	20	1000	1000	0	0	0	0	15✓	0	0
WOOD DUCK	75	75	250	225	100	0	0	0	20✓	40✓	75✓	125✓
BOB HEAD	0	0	0	50	50	0	0	0	20✓	10✓	0	0
CANVASBACK	0	0	0	50	50	0	0	0	15✓	10✓	0	0
LESSER SCAUP	0	0	0	75	75	0	0	0	100✓	20✓	0	0
RING-NECKED DUCK	0	0	0	25	25	0	0	0	15✓	15✓	0	0
COMMON GOLDENEYE	0	0	0	0	0	0	0	0	0	0	0	0
BOBBY LUCK	0	0	275	450	400	0	30✓	0	0	25✓	0	0
Bufflehead												
TOTAL SWANS	0	0	0	1	78	231	2	0	15	20	40	43
TOTAL GEESSE	10	10	50	150	150	0	0	0	40	40	40	43
TOTAL DUCKS	155	135	1150	17425	16550	0	280	0	775	400	145	225
TOTAL WATERFOWL	145	145	1200	17576	16778	0	282	0	830	460	185	265

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NATIONAL WILDLIFE REFUGE SYSTEM
PEAK MONTHLY WATERFOWL POPULATIONS

DARBY MARSH

02-25522-02-DEM

SPECIES NAME	JUL 72	AUG 72	SEP 72	OCT 72	NOV 72	DEC 72	JAN 73	FEB 73	MAR 73	APR 73	MAY 73	JUN 73
SPECIAL RECREATION SITES												
AMERICAN COTTON	5	5	2450	5000	5000	0	0	0	0	0	100	0
AMERICAN WINGED TEAL	0	0	0	0	5	0	0	0	0	0	0	0
AMERICAN WINGED TEAL	0	0	200	200	0	0	0	0	0	0	0	0
SWAN												
WHISTLING SWAN												
SEALS												
CANADA GOOSE												
DUCKS												
AVOYARD	40	40	50	250	100	0	0	0	0	0	0	0
BLACK DUCK	5	5	30	150	150	0	0	0	0	0	0	0
BAYWING	0	0	0	0	60	0	0	0	0	0	0	0
AMERICAN WINGED	0	0	2400	900	400	0	0	0	0	0	0	0
WHITE-WINGED TEAL	0	0	0	75	40	0	0	0	0	0	0	0
WHITE-WINGED TEAL	15	15	75	15	0	0	0	0	0	0	0	0
SHOVELER	0	0	0	20	10	0	0	0	0	0	0	0
PINTAIL	0	0	0	40	60	0	0	0	0	0	0	0
WOOD DUCK	40	40	800	350	5	0	0	0	0	0	0	0
LESSER SCAUP	0	0	0	0	5	0	0	0	0	0	0	0
PENNY-CRACKED DUCK	0	0	0	15	20	0	0	0	0	0	0	0
RUGGY DUCK	0	0	0	0	20	0	0	0	0	0	0	0
TOTAL SWANS	0	0	0	0	5	0	0	0	0	0	0	0
TOTAL GOOSE	0	0	200	200	0	0	0	0	0	0	0	0
TOTAL DUCKS	100	100	3555	1740	870	0	0	0	0	0	0	0
TOTAL WATERFOWL	100	100	3555	1940	875	0	0	0	0	0	0	0

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01-11-74
WALDEN REFUGE

NATIONAL WILDLIFE REFUGE SYSTEM
PEAK MONTHLY WATERFOWL POPULATIONS

NAVARRE

02-2533-24-NVR

SPECIES NAME

SPECIAL RECOGNITION

BIRDS

AMERICAN GOOSE

WATERFOWL MAINTENANCE

SWANS

WHISTLING SWAN

GEESE

CANADA GOOSE

DUCKS

COMMON MERRGANSER

MALLARD

BLACK DUCK

GADGALL

AMERICAN WIDGEON

GREEN-WINGED TEAL

BLUE-WINGED TEAL

SHOVLER

PIVOTAL

WOOD DUCK

RED HINE

CANVASBACK

LESSER SCAUP

PING-NECKED DUCK

MUDDY DUCK

TOTAL SWANS

TOTAL GEESE

TOTAL DUCKS

TOTAL WATERFOWL

	JUL 72	AUG 72	SEP 72	OCT 72	NOV 72	DEC 72	JAN 73	FEB 73	MAR 73	APR 73	MAY 73	JUN 73
AMERICAN GOOSE	75	75	1800	5000	5000	0	0	0	500	500	125	25
WHISTLING SWAN	0	0	0	0	0	0	0	0	800	40	0	0
CANADA GOOSE	0	0	5	20	0	0	0	0	200	60	7	7
COMMON MERRGANSER	0	0	0	0	0	0	0	0	60	40	0	0
MALLARD	30	25	60	200	100	0	0	0	200	75	15	25
BLACK DUCK	5	5	15	350	350	0	0	0	200	60	0	0
GADGALL	0	0	0	250	45	0	0	0	0	0	0	0
AMERICAN WIDGEON	0	0	250	800	800	0	0	0	20	50	0	0
GREEN-WINGED TEAL	0	10	10	0	40	0	0	0	0	0	0	0
BLUE-WINGED TEAL	20	50	75	75	0	0	0	0	100	75	0	15
SHOVLER	0	0	10	10	30	0	0	0	10	30	0	0
PIVOTAL	0	0	5	25	150	0	0	0	25	0	0	0
WOOD DUCK	25	25	80	80	10	0	0	0	10	20	15	30
RED HINE	0	0	0	5	10	0	0	0	5	0	0	0
CANVASBACK	0	0	0	0	0	0	0	0	20	0	0	0
LESSER SCAUP	0	0	15	25	10	0	0	0	0	0	0	0
PING-NECKED DUCK	0	0	25	25	15	0	0	0	0	0	0	0
MUDDY DUCK	0	0	0	0	50	0	0	0	0	0	0	0
TOTAL SWANS	0	0	0	0	0	0	0	0	80	4	0	0
TOTAL GEESE	0	0	5	20	0	0	0	0	200	60	7	7
TOTAL DUCKS	80	115	545	1845	1610	0	0	0	650	350	30	70
TOTAL WATERFOWL	86	115	550	1865	1610	0	0	0	930	414	37	77

RECEIVED
FEB 23 1974
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Ottawa River

NATIONAL WILDLIFE REFUGE SYSTEM
AVERAGE MONTHLY WATERFOWL POPULATIONS

OTTAWA

03-3533-00-CTW

SPECIES NAME	JUL 72	AUG 72	SEP 72	OCT 72	NOV 72	DEC 72	JAN 73	FEB 73	MAR 73	APR 73	MAY 73	JUN 73
SPECIAL RECOGNITION BIRDS												
AMERICAN COOT	100	100	2150	12500	8600	0	0	0	400	800	1500	1500
WATERFOWL MAINTENANCE SWANS												
WHISTLING SWAN	0	0	0	5	110	0	1	19	200	15	0	0
GEESE												
LESSER-SNOW GOOSE	0	0	1	50	90	0	0	0	0	0	0	0
CANADA GOOSE	550	1400	2200	11500	14900	5000	5000	8000	9000	1000	750	1000
BARNACLE GOOSE	0	0	0	0	0	0	0	0	0	1	1	0
DUCKS												
COMMON Merganser	0	0	0	0	150	0	150	900	600	250	40	0
RED-BREASTED Merganser	0	0	0	0	30	0	0	0	5	10	0	0
HOODED Merganser	0	5	1	1	90	0	0	0	40	5	0	0
MALLARD	1500	3000	9200	14100	20500	1300	1300	1500	4000	1500	75	900
BLACK DUCK	50	50	2000	8200	9200	1300	1300	1600	3000	1600	25	25
GADWALL	0	0	100	440	550	0	0	0	75	15	2	1
AMERICAN WIDGEON	10	20	725	1060	750	0	0	0	700	250	0	10
GREEN-WINGED TEAL	15	25	125	300	300	0	0	0	100	10	0	0
BLUE-WINGED TEAL	75	100	2250	340	20	0	0	0	400	700	75	100
SHOVELER	15	15	150	250	100	0	0	0	250	400	20	0
PINTAIL	10	10	250	700	350	0	0	0	450	15	4	5
WOOD DUCK	250	450	800	570	70	0	0	0	100	200	100	100
RED HEAD	0	0	0	30	80	0	0	0	350	50	6	5
CANVASBACK	0	0	0	15	130	0	0	0	150	5	0	0
LESSER SCAUP	0	0	0	20	100	0	0	0	150	15	10	0
RING-NECKED DUCK	0	0	0	10	80	0	0	0	100	20	2	0
COMMON GOLDENEYE	0	0	0	10	60	0	40	0	50	0	0	0
BUFFLEHEAD	0	0	0	0	70	0	0	0	100	5	2	0
RUDDY LUCK	5	5	5	250	270	0	0	0	150	30	15	0
TOTAL SWANS	0	0	0	5	110	0	1	19	200	15	0	0
TOTAL GEESE	550	1400	2201	11550	14990	5000	5000	8000	9000	1001	751	1000
TOTAL DUCKS	1930	3680	15606	26316	32900	2790	2790	4000	10770	5080	376	1151
TOTAL WATERFOWL	2480	5080	17807	37871	48000	7791	7791	12009	19970	6096	1127	2151

TOTAL SWANS
TOTAL GEESE
TOTAL DUCKS
TOTAL WATERFOWL

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WILLIAMS GEORGE
WILLIAMS GEORGE

NATIONAL WILDLIFE REFUGE SYSTEM
 AVERAGE MONTHLY WATERFOWL POPULATIONS

CEDAR POINT

03-3523-01-CDP

SPECIES NAME	JUN 72	AUG 72	SEP 72	OCT 72	NOV 72	DEC 72	JAN 73	FEB 73	MAR 73	APR 73	MAY 73	JUN 73
SPECIAL RECOGNITION BIRDS												
AMERICAN COOT	75	75	475	5300	4500	0	0	0	50	200	1150	1250
WATERFOWL MAINTENANCE SWANS												
WHISTLING SWAN	0	0	0	1	30	08	1	0	10	5	0	0
GEESE												
CANADA GOOSE	10	10	25	95	80	0	0	0	15	20	40	40
DUCKS												
COMMON MERGANSER	0	0	0	0	0	0	50	0	60	50	0	0
MALLARD	30	30	30	4575	5250	0	50	0	25	50	20	30
BLACK DUCK	5	5	60	2250	2630	0	0	0	50	20	0	0
GADWALL	0	0	0	250	100	0	0	0	0	5	0	0
AMERICAN WIDGEON	0	0	90	1175	850	0	0	0	150	5	0	0
GREEN-WINGED TEAL	0	0	0	125	100	0	0	0	0	4	0	0
BLUE-WINGED TEAL	25	25	110	110	0	0	0	0	15	40	20	40
SHOVELER	0	0	0	140	90	0	0	0	25	20	0	0
PINTAIL	0	0	10	450	290	0	0	0	0	5	0	0
WOOD DUCK	75	75	185	130	30	0	0	0	5	30	50	100
RED HEAD	0	0	0	15	10	0	0	0	15	5	0	0
CANVASBACK	0	0	0	15	10	0	0	0	5	2	0	0
LESSER SCAUP	0	0	0	20	20	0	0	0	75	5	0	0
RING-NECKED DUCK	0	0	0	5	10	0	0	0	15	5	0	0
COMMON GOLDENEYE	0	0	0	0	0	0	15	0	0	0	0	0
BULLY DUCK	0	0	90	310	400	15	0	0	0	15	0	0
TOTAL SWANS	0	0	0	1	30	08	1	0	10	5	0	0
TOTAL GEESE	10	10	25	95	80	0	0	0	15	20	40	40
TOTAL DUCKS	135	135	575	9570	9790	0	140	0	440	261	90	170
TOTAL WATERFOWL	145	145	600	9666	9900	08	141	0	465	286	130	210

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OTTER CREEK WILDLIFE REFUGE

NATIONAL WILDLIFE REFUGE SYSTEM
 AVERAGE MONTHLY WATERFOWL POPULATIONS

DARBY MARSH

03-3533-03-DBM

SPECIES NAME JUL 72 AUG 72 SEP 72 OCT 72 NOV 72 DEC 72 JAN 73 FEB 73 MAR 73 APR 73 MAY 73 JUN 73

SPECIAL RECOGNITION

BIRDS

AMERICAN COOT

WATERFOWL MAINTENANCE

SWANS

WHISTLING SWAN

GEESE

CANADA GOOSE

DUCKS

MALLARD

BLACK DUCK

GADWALL

AMERICAN WIDGEON

GREEN-WINGED TEAL

BLUE-WINGED TEAL

SHOVELER

PINTAIL

WIDE DUCK

LESSER SCAUP

RING-NECKED DUCK

RUDDY DUCK

TOTAL SWANS

TOTAL GEESE

TOTAL DUCKS

TOTAL WATERFOWL

SPECIES NAME	JUL 72	AUG 72	SEP 72	OCT 72	NOV 72	DEC 72	JAN 73	FEB 73	MAR 73	APR 73	MAY 73	JUN 73
AMERICAN COOT	5	5	820	2600	2600	0	0	0	0	0	0	0
WHISTLING SWAN	0	0	0	0	5	0	0	0	0	0	0	0
CANADA GOOSE	0	0	100	50	0	0	0	0	0	0	0	0
MALLARD	40	40	50	75	60	0	0	0	0	0	0	0
BLACK DUCK	5	5	10	60	70	0	0	0	0	0	0	0
GADWALL	0	0	0	10	50	0	0	0	0	0	0	0
AMERICAN WIDGEON	0	0	1000	650	270	0	0	0	0	0	0	0
GREEN-WINGED TEAL	0	0	0	25	30	0	0	0	0	0	0	0
BLUE-WINGED TEAL	15	15	30	5	0	0	0	0	0	0	0	0
SHOVELER	0	0	0	5	10	0	0	0	0	0	0	0
PINTAIL	0	0	0	10	40	0	0	0	0	0	0	0
WIDE DUCK	40	40	400	110	5	0	0	0	0	0	0	0
LESSER SCAUP	0	0	0	0	5	0	0	0	0	0	0	0
RING-NECKED DUCK	0	0	0	5	20	0	0	0	0	0	0	0
RUDDY DUCK	0	0	0	0	20	0	0	0	0	0	0	0
TOTAL SWANS	0	0	0	0	5	0	0	0	0	0	0	0
TOTAL GEESE	0	0	100	50	0	0	0	0	0	0	0	0
TOTAL DUCKS	100	100	1490	955	580	0	0	0	0	0	0	0
TOTAL WATERFOWL	100	100	1590	1005	585	0	0	0	0	0	0	0

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OFFICE OF THE ATTORNEY GENERAL
WILSON REID

NATIONAL WILDLIFE REFUGE SYSTEM
 AVERAGE MONTHLY WATERFOWL POPULATIONS

NAVARRE

53-3533-04-NVR

SPECIES NAME	JUL 72	AUG 72	SEP 72	OCT 72	NOV 72	DEC 72	JAN 73	FEB 73	MAR 73	APR 73	MAY 73	JUN 73
SPECIAL RECOGNITION												
BIRDS												
AMERICAN COOT	75	75	685	3575	2000	0	0	0	25	25	25	25
WATERFOWL MAINTENANCE												
SWANS												
WHISTLING SWAN	0	0	0	0	0	0	0	0	30	1	0	0
GEESE												
CANADA GOOSE	6	0	1	5	0	0	0	0	150	10	3	7
DUCKS												
COMMON Merganser	0	0	0	0	0	0	0	0	30	10	0	0
Mallard	30	25	35	125	60	0	0	0	100	20	15	20
Black Duck	5	5	15	135	140	0	0	0	150	15	0	0
Gadwall	0	0	0	75	20	0	0	0	0	0	0	0
American Widgeon	0	0	150	550	500	0	0	0	20	5	0	0
Green-winged Teal	0	10	5	0	30	0	0	0	0	0	0	0
Blue-winged Teal	20	50	60	20	0	0	0	0	50	20	0	10
Shoveler	0	0	5	5	20	0	0	0	5	5	0	0
Pintail	0	0	5	10	110	0	0	0	10	0	0	0
Wood Duck	15	25	60	30	10	0	0	0	10	10	15	20
Red Head	0	0	0	5	10	0	0	0	0	0	0	0
Canvasback	0	0	0	0	0	0	0	0	10	0	0	0
Lesser Scaup	0	0	5	10	10	0	0	0	0	0	0	0
Ring-necked Duck	0	0	10	10	10	0	0	0	0	0	0	0
Ruddy Duck	0	0	0	0	40	0	0	0	0	0	0	0
TOTAL SWANS	0	0	0	0	0	0	0	0	30	1	0	0
TOTAL GEESE	6	0	1	5	0	0	0	0	150	10	3	7
TOTAL DUCKS	70	115	350	975	960	0	0	0	390	85	30	50
TOTAL WATERFOWL	76	115	351	980	960	0	0	0	570	96	33	57

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WILDLIFE REFUGE

NATIONAL WILDLIFE REFUGE SYSTEM
WILDLIFE USE REPORT
(WATERFOWL ONLY)

Ottawa Hunt

FY-73

OTTAWA
03-3533-00-0TW

SPECIES NAME	LINE CODE	*****--USE DAYS-----*****				FY-NO. PRODUCED	FY-NO. HARVESTED	FY-PEAK POPULATION	DATE
		JUL-SEP 72	OCT-DEC 72	JAN-MAR 73	APR-JUN 73				
WATERFOWL PRODUCTION									
NON-OUTPUT SPECIES	080 2210	0	0	0	0	250	0	0	
AMERICAN COOT									
SPECIAL RECOGNITION									
BIRDS									
AMERICAN COOT	711 2210	3000	0	0	0	3000	0	100 / 07/01	
WATERFOWL MAINTENANCE									
SWANS									
WHISTLING SWAN	731 1600	0	150	0	0	150	0	10 / 10/31	
GEESE									
LESSER-SNOW GOOSE	732 1690	30	0	0	0	30	0	5 / 09/30	
CANADA GOOSE	732 1720	16500	0	0	0	16500	0	550 / 07/01	
BARNACLE GOOSE	732 1750	0	0	0	30	30	0	1 / 04/15	
DUCKS									
COMMON MERGANSER	733 1290	0	450	0	0	450	0	300 / 11/24	
RED-BREASTED MERGANSER	733 1300	0	900	0	0	900	0	65 / 11/24	
HOODIE MERGANSER	733 1310	150	0	0	0	150	0	5 / 08/08	
MALLARD	733 1320	45000	0	0	0	45000	0	3000 / 07/25	
BLACK DUCK	733 1330	1500	0	0	0	1500	0	50 / 07/15	
GADWALL	733 1350	3000	0	0	0	3000	0	200 / 09/21	
AMERICAN WIDGEON	733 1370	300	0	0	0	300	0	10 / 07/01	
GREEN-WINGED TEAL	733 1390	450	0	0	0	450	0	25 / 07/15	
BLUE-WINGED TEAL	733 1400	2250	0	0	0	2250	0	100 / 07/25	
SHOVELER	733 1420	450	0	0	0	450	0	15 / 07/20	
PINTAIL	733 1430	300	0	0	0	300	0	10 / 07/01	
WOOD DUCK	733 1440	7500	0	0	0	7500	0	450 / 07/15	
RED HEAD	733 1460	0	900	0	0	900	0	120 / 10/31	
CANVASBACK	733 1470	0	450	0	0	450	0	55 / 10/31	
LESSER SCAUP	733 1490	0	600	0	0	600	0	75 / 10/31	
RING-NECKED DUCK	733 1500	0	300	0	0	300	0	30 / 10/31	
COMMON GOLDBENEYE	733 1510	0	300	0	0	300	0	40 / 10/31	
BUFFLEHEAD	733 1530	0	2100	0	0	2100	0	120 / 11/24	
RUDDY DUCK	733 1670	150	0	0	0	150	0	5 / 07/01	

average population during first quarter birds present in FY

Peak during first quarter if appropriate

does not include 12/72

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NATIONAL WILDLIFE REFUGE SYSTEM
 WILDLIFE USE REPORT
 (WATERFOWL ONLY)

FY-73

OTTAWA
 03-3533-00-OTW

*****-----USE DAYS-----*****
 LINE CODE JUL-SEP 72 OCT-DEC 72 JAN-MAR 73 APR-JUN 73 FY TOTAL PRODUCED HARVESTED POPULATION DATE

SPECIES NAME

WATERFOWL PRODUCTION

LINE CODE	JUL-SEP 72	OCT-DEC 72	JAN-MAR 73	APR-JUN 73	FY TOTAL	PRODUCED	HARVESTED	POPULATION	DATE
802 1720	0	0	0	0	0	134	0	0	
GEESE									
CANADA GOOSE									
DUCKS									
803 1320	0	0	0	0	0	100	0	0	
803 1400	0	0	0	0	0	75	0	0	
803 1440	0	0	0	0	0	300	0	0	
995 0000	77400	0	0	0	77400	0	0	4315	07/00
996 0000	0	0	0	0	0	859	0	0	
TOTAL	157980	10200	30	0	168210	1718	0		
CONTROL TOTALS									
CONTROL TOTALS									

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FEB 23 1974
MEDICAL DEPARTMENT
UNIVERSITY OF MICHIGAN

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WILSON
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NATIONAL WILDLIFE REFUGE SYSTEM
WILDLIFE USE REPORT
(WATERFOWL ONLY)

FY-73

DARBY MARSH
03-3533-03-DBM

***** USE DAYS ***** FY-NO. FY-NO. FY-PEAK
LINE CODE JUL-SEP 72 OCT-DEC 72 JAN-MAR 73 APR-JUN 73 FY TOTAL PRODUCED HARVESTED POPULATION DATE

SPECIAL RECOGNITION

SPECIES NAME	711 2210	0	0	0	150	0	0	0	0	5	07/01
BIRDS											
AMERICAN COOT	150	0	0	0	150	0	0	0	0	5	07/01
WATERFOWL MAINTENANCE											
SWANS											
WHISTLING SWAN	0	150	0	0	150	0	0	0	0	5	11/24
GOOSE											
CANADA GOOSE	3000	0	0	0	3000	0	0	0	0	200	09/30
DUCKS											
MALLARD	1200	0	0	0	1200	0	0	0	0	40	07/01
BLACK DUCK	150	0	0	0	150	0	0	0	0	5	07/01
GADWALL	0	300	0	0	300	0	0	0	0	25	10/26
AMERICAN WIDGEON	30000	0	0	0	30000	0	0	0	0	2400	09/21
GREEN-WINGED TEAL	0	750	0	0	750	0	0	0	0	75	10/17
BLUE-WINGED TEAL	450	0	0	0	450	0	0	0	0	15	07/01
SHOVELER	0	150	0	0	150	0	0	0	0	20	10/26
PINTAIL	0	300	0	0	300	0	0	0	0	40	10/26
WOOD DUCK	1200	0	0	0	1200	0	0	0	0	40	07/01
LESSER SCAUP	0	150	0	0	150	0	0	0	0	5	11/10
RING-NECKED DUCK	0	150	0	0	150	0	0	0	0	15	10/26
RUDY DUCK	0	600	0	0	600	0	0	0	0	20	11/10
CONTROL TOTALS	995 0000	0	0	0	3150	0	0	0	0	105	07/00
TOTAL	39300	2550	0	0	41850	0	0	0	0		

RENEWED
FEB 23 1974
OFFICE OF THE
WILDLIFE MANAGER

NATIONAL WILDLIFE REFUGE SYSTEM
WILDLIFE USE REPORT
(WATERFOWL ONLY)

FY-73

NAVARRE
03-3533-04-NVR

***** USE DAYS *****
LINE CODE JUL-SEP 72 OCT-DEC 72 JAN-MAR 73 APR-JUN 73 FY TOTAL PRODUCED HARVESTED POPULATION DATE

SPECIAL RECOGNITION	SPECIES NAME	72	73	73	73	73	FY-NO.	FY-NO.	FY-PEAK	DATE
		JUL-SEP	OCT-DEC	JAN-MAR	APR-JUN	FY TOTAL	PRODUCED	HARVESTED	POPULATION	
BIRDS	AMERICAN COOT	2250	0	0	0	2250	0	0	75	07/01
WATERFOWL MAINTENANCE										
SWANS	WHISTLING SWAN	0	0	900	0	900	0	0	80	03/16
GEESE	CANADA GOOSE	180	0	0	0	180	0	0	6	07/01
DUCKS	COMMON MERGANSER	0	0	900	0	900	0	0	60	03/20
	MALLARD	900	0	0	0	900	0	0	30	07/01
	BLACK DUCK	150	0	0	0	150	0	0	5	07/01
	GADGALL	0	2250	0	0	2250	0	0	250	10/26
	AMERICAN WIDGEON	4500	0	0	0	4500	0	0	250	09/21
	GREEN-WINGED TEAL	300	0	0	0	300	0	0	10	08/15
	BLUE-WINGED TEAL	600	0	0	0	600	0	0	20	07/01
	SHOVELER	150	0	0	0	150	0	0	10	09/30
	PINTAIL	150	0	0	0	150	0	0	5	09/21
	WOOD DUCK	450	0	0	0	450	0	0	25	07/15
	RED HEAD	150	0	0	0	150	0	0	5	10/31
	CANVASBACK	0	300	0	0	300	0	0	20	03/16
	LESSER SCAUP	150	0	0	0	150	0	0	15	09/30
	RING-NECKED DUCK	300	0	0	0	300	0	0	25	09/30
	RUDDY DUCK	0	1200	0	0	1200	0	0	50	11/10
CONTROL TOTALS		4530	0	0	0	4530	0	0	161	07/00
	TOTAL	14610	3600	2100	0	20310	0	0		

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FEB 23 1974

COMMUNITY DEVELOPMENT
WASHINGTON, D.C.

Attawa Park

NATIONAL WILDLIFE REFUGE SYSTEM
REPORT OF ECONOMIC OUTPUTS - FY 73
(IN DOLLARS)

OTTAWA

93-3533-00-JTM

TYP. OF BENEFIT	JUL-SEP 72	OCT-DEC 72	JAN-MAR 73	APR-JUN 73	FY TOTAL
DEPRECIATIONS PREVENTED					
CAMPFIRE	0.00	0.00	0.00	0.00	0.00
EMERGENCY	0.00	0.00	0.00	0.00	0.00
LIVESTOCK	0.00	0.00	0.00	0.00	0.00
PUBLIC INFRASTRUCTURE	0.00	0.00	0.00	0.00	0.00
OTHER DEPRECIATIONS PREVENTED	0.00	0.00	0.00	0.00	0.00
FUTURE RECEIPTS					
FUR BONUS	0.00	0.00	7,010.19 ✓	6,166.94 ✓	13,177.13
OTHER RECEIPTS	1,327.42 ✓	9.00 ✓	195.00 ✓	659.00 ✓	2,181.42
TOTAL	1,327.42 ✓	9.00 ✓	7,205.19 ✓	6,825.94 ✓	15,358.55

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FEB 25 1974
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W. J. ...

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JAN 11 1974

OTTAWA NATIONAL
WILDLIFE REFUGE

NWRS COST INFORMATION SYSTEM
OBJECTIVE FUNCTION COST REPORT
FINAL FIELD STATION DATA BASE
FY-73 ALL QUARTERS

OTTAWA
03-3533-00

PROCESSING DATE 12/15/73

OF CODE	OBJECTIVE FUNCTION	TOTAL MAN-HOURS	TOTAL O&M COST
1	INTERPRETATION	1,778	12,888.00
2	EDUCATION	80	562.00
3	RECREATION - WILDLIFE WILDLANDS	277	1,947.00
5	PUBLIC TN, STUDIES, COOP PROGRAMS	993	6,586.00
6	ENVIRONMENTAL PRESERVATION	39	266.00
7	WILDLIFE MAINTENANCE	6,552	46,614.00
8	WILDLIFE PRODUCTION	1,136	6,644.00
9	ECONOMIC BENEFITS	3	32.00
ORGANIZATIONAL TOTAL		10,858	75,539.00

NWRS COST INFORMATION SYSTEM
OBJECTIVE FUNCTION COST REPORT
FINAL FIELD STATION DATA BASE
FY-73 ALL QUARTERS

DARRY MARSH
03-3533-03

PROCESSING DATE 12/15/73

OF CODE	OBJECTIVE FUNCTION	TOTAL MAN-HOURS	TOTAL O&M COST
C	(ALL OUTPUTS - DISTRIBUTIVE)		18.00
	ORGANIZATIONAL TOTAL		18.00

RECEIVED

JAN 11 1974

OTTAWA NATIONAL WILDLIFE REFUGE

NMRS COST INFORMATION SYSTEM
 WORK ELEMENT COST REPORT
 WITH OUTPUT ELEMENT DETAIL
 FINAL FIELD STATION DATA BASE

FY-73, ALL QUARTERS

OTTAWA

03-3533-00

PROCESSING DATE 12/11/73

WE CODE	WORK ELEMENT	OS CODE	OUTPUT ELEMENT	WE	UNITS ACCOMPLISHED	TOTAL MAN-HOURS	TOTAL COST	MAN-HOURS PER UNIT
02	OPERATION-SURVEYS	10	TRAILS	NO. SURVEY	0	0	2.00	.00
		13	CONTACT STATIONS	NO. SURVEY	0	0	1.00	.00
		14	EXHIBITS - DEMONSTRATIONS	NO. SURVEY	0	0	1.00	.00
		15	OTHER PROGRAMS	NO. SURVEY	0	1	2.00	.00
		22	FISHING	NO. SURVEY	0	0	3.00	.00
		24	BANDING	NO. SURVEY	0	0	3.00	.00
		71	SPECIAL RECOG SPECIES	NO. SURVEY	0	17	101.00	.00
		73	WATERFOWL MAINTENANCE	NO. SURVEY	0	181	1262.00	.00
		80	WATERFOWL PRODUCTION	NO. SURVEY	0	13	71.00	.00
	WORK ELEMENT TOTALS/AVERAGES			NO. SURVEY	0	212	1444.00	.00
03	OPERATION-FARMING	73	WATERFOWL MAINTENANCE	A. FARMED	0	68	936.00	.00
	WORK ELEMENT TOTALS/AVERAGES			A. FARMED	0	68	936.00	.00
05	OPERATION-PEST PLY CON	00	NATURAL ENVYRMT PRESRV	A. TREATED	0	0	1.00	.00
	WORK ELEMENT TOTALS/AVERAGES			A. TREATED	0	0	123.00	.00
				A. TREATED	0	0	124.00	.00
07	OPERATION-WAY LEVEL MGT	73	WATERFOWL MAINTENANCE	A. MANAGED	0	269	2121.00	.00
	WORK ELEMENT TOTALS/AVERAGES			A. MANAGED	0	269	2122.00	.00
11	OPERATION-ANIMAL CONT	30	HUNTING MIGRATORY BIRDS	NO. AN CON	0	4	36.00	.00
		31	HUNTING RESIDENT GAME	NO. AN CON	0	4	36.00	.00
	WORK ELEMENT TOTALS/AVERAGES			NO. AN CON	0	86	512.00	.00
				NO. AN CON	0	94	585.00	.00
12	OPERATION-DISEASE CONT	73	WATERFOWL MAINTENANCE	NO. PRCGMS	0	0	17.00	.00
	WORK ELEMENT TOTALS/AVERAGES			NO. PRCGMS	0	0	17.00	.00
14	OPERATION-BIRD MARKING	56	BANDING	NO. MARKED	0	342	1809.00	.00
	WORK ELEMENT TOTALS/AVERAGES			NO. MARKED	0	342	1809.00	.00
16	OPERATION-ANIM COLLECT	55	ECOLOGICAL MONITORING	NO. COLCTD	0	12	42.00	.00
	WORK ELEMENT TOTALS/AVERAGES			NO. COLCTD	0	12	42.00	.00

NWRS COST INFORMATION SYSTEM
 WORK ELEMENT COST REPORT
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 FINAL FIELD STATION DATA BASE

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CITTAWA

03-3533-00

PROCESSING DATE 12/11/77

WE CODE WORK ELEMENT OPERATION + MAINTENANCE OE CODE WORK ELEMENT OUTPUT ELEMENT WE UNITS ACCOMPLISHED TOTAL MAN-HOURS TOTAL COST MAN-HOURS PER UNIT PE

WE CODE	WORK ELEMENT	OE CODE	WORK ELEMENT	OUTPUT ELEMENT	WE	UNITS ACCOMPLISHED	TOTAL MAN-HOURS	TOTAL COST	MAN-HOURS PER UNIT	PE
19	OPERATION-ENVIR R & M WORK ELEMENT	60	NATURAL ENVRNMT PRESRVD WORK ELEMENT TOTALS/AVERAGES		NC. PROJECT	0	16	88.00	.00	
20	OPERATION-LITTER CNT	10	TRAILS		NC. PROJECT	0	0	1.00	.00	
		14	EXHIBITS - DEMONSTRATNS		NC. PROJECT	0	0	1.00	.00	
		15	OTHER PROGRAMS		NC. PROJECT	0	0	1.00	.00	
		32	FISHING		NC. PROJECT	0	14	138.00	.00	
		56	BANDING		NC. PROJECT	0	0	1.00	.00	
		72	WILDLIFE DIVERSITY		NC. PROJECT	0	0	1.00	.00	
		73	WATERFCWL MAINTENANCE		NC. PROJECT	0	0	10.00	.00	
		80	WATERFCWL PRODUCTION		NC. PROJECT	0	0	2.00	.00	
			WORK ELEMENT TOTALS/AVERAGES		NC. PROJECT	0	14	155.00	.00	
21	OPERATION-PUBLIC INQ	10	TRAILS		NC. RESPON	0	180	833.00	.00	
		13	CONTACT STATIONS		NC. RESPON	0	15	79.00	.00	
		15	OTHER PROGRAMS		NC. RESPON	0	6	29.00	.00	
		31	HUNTING RESIDENT GAME		NC. RESPON	0	6	26.00	.00	
		71	SPECIAL RECOG SPECIES		NC. RESPON	0	7	35.00	.00	
		73	WATERFCWL MAINTENANCE		NC. RESPON	0	11	52.00	.00	
			WORK ELEMENT TOTALS/AVERAGES		NC. RESPON	0	225	1054.00	.00	
22	OPERATION-PUBLIC PROG	10	TRAILS		NC. PRGMS	0	130	725.00	.00	
		14	EXHIBITS - DEMONSTRATNS		NC. PRGMS	0	135	844.00	.00	
		15	OTHER PROGRAMS		NC. PRGMS	0	120	1760.00	.00	
		21	TEACHERS		NC. PRGMS	0	4	25.00	.00	
		35	WILDLIFE APPRECIATION		NC. PRGMS	0	4	18.00	.00	
		38	PUBLIC AFFAIRS		NC. PRGMS	0	36	200.00	.00	
			WORK ELEMENT TOTALS/AVERAGES		NC. PRGMS	0	429	3572.00	.00	
23	OPERATION-PROTECTION	32	FISHING		AS APP	0	9	51.00	.00	
		38	PUBLIC AFFAIRS		AS APP	0	7	44.00	.00	
		55	ECOLOGICAL MONITORING		AS APP	0	8	69.00	.00	
		62	WILDERNESS AREAS		AS APP	0	2	12.00	.00	
		73	WATERFCWL MAINTENANCE		AS APP	0	28	159.00	.00	
			WORK ELEMENT TOTALS/AVERAGES		AS APP	0	54	335.00	.00	

NWRS CCST INFORMATION SYSTEM
 WORK ELEMENT CCST REPORT
 WITH OUTPUT ELEMENT DETAIL
 FINAL FIELD STATION DATA BASE

FY-73 ALL QUARTERS

CTTAAA

03-3533-00

PROCESSING DATE 12/11/73

WE CODE WORK ELEMENT OPERATION + MAINTENANCE

DE CODE OUTPUT ELEMENT

WE UNITS ACCOMPLISHED

TOTAL MAN-HOURS

TOTAL CCST

MAN-HOURS PER UNIT

PE

WE CODE	WORK ELEMENT	DE CODE	OUTPUT ELEMENT	WE UNITS ACCOMPLISHED	TOTAL MAN-HOURS	TOTAL CCST	MAN-HOURS PER UNIT	PE
25	OPERATION-BUREAU ACT	15	OTHER PROGRAMS	0	4	24.00	.00	
		22	PROFESSIONAL SERVICES	0	3	19.00	.00	
		57	OTHER COOPERATIVE PRGMS	0	4	25.00	.00	
	WORK ELEMENT TOTALS/AVERAGES			0	11	68.00	.00	
26	OPERATION-SPECIAL SER	10	TRAILS	0	1	8.00	.00	
		14	EXHIBITS - DEMONSTRATNS	0	1	4.00	.00	
		15	OTHER PROGRAMS	0	12	73.00	.00	
		21	TEACHERS	0	22	134.00	.00	
		22	PROFESSIONAL SERVICES	0	6	36.00	.00	
		30	HUNTING MIGRATORY BIRDS	0	0	1.00	.00	
		32	FISHING	0	1	1.00	.00	
		38	PUBLIC AFFAIRS	0	0	1.00	.00	
		56	BANDING	0	0	1.00	.00	
		71	SPECIAL RECCG SPECIES	0	1	10.00	.00	
		72	WILDLIFE DIVERSITY	0	0	1.00	.00	
		73	WATERFOWL MAINTENANCE	0	1	1.00	.00	
		80	WATERFOWL PRODUCTION	0	10	60.00	.00	
	WORK ELEMENT TOTALS/AVERAGES			0	2	10.00	.00	
				0	57	348.00	.00	
27	OPERATION-OTH OPERATION	10	TRAILS	0	2	232.00	.00	
		13	CONTACT STATIONS	0	0	8.00	.00	
		14	EXHIBITS - DEMONSTRATNS	0	0	88.00	.00	
		15	OTHER PROGRAMS	0	2	196.00	.00	
		21	TEACHERS	0	0	16.00	.00	
		22	PROFESSIONAL SERVICES	0	0	5.00	.00	
		30	HUNTING MIGRATORY BIRDS	0	0	14.00	.00	
		31	HUNTING RESIDENT GAME	0	0	6.00	.00	
		32	FISHING	0	0	28.00	.00	
		35	WILDLIFE APPRECIATION	0	0	2.00	.00	
		38	PUBLIC AFFAIRS	0	0	25.00	.00	
		55	ECOLOGICAL MONITORING	0	1	11.00	.00	
		56	BANDING	0	1	238.00	.00	
		57	OTHER COOPERATIVE PRGMS	0	0	3.00	.00	
		60	NATURAL ENVRNMT PRESRVD	0	0	9.00	.00	

INRS COST INFORMATION SYSTEM
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 FRENCH FIELD STATION DATA BASE

FY-73 ALL QUARTERS

OTTAWA

03-3523-00

PROCESSING DATE 12/11/73

WE CODE	WORK ELEMENT	DE CODE	OUTPUT ELEMENT	WE	UNITS ACCOMPLISHED	TOTAL MAN-HOURS	TOTAL COST	MAN-HOURS PER UNIT	DC PER
OPERATION + MAINTENANCE									
21	TEACHERS			SG	FT	5	29.00		.00
22	PROFESSIONAL SERVICES			SG	FT	2	5.00		.00
30	HUNTING MIGRATORY BIRDS			SG	FT	5	25.00		.00
31	HUNTING RESIDENT GAME			SG	FT	2	11.00		.00
32	FISHING			SG	FT	9	49.00		.00
33	WILDLIFE APPRECIATION			SG	FT	1	4.00		.00
34	PUBLIC AFFAIRS			SG	FT	3	40.00		.00
35	ECOLOGICAL MONITORING			SG	FT	4	20.00		.00
36	BANDING			SG	FT	82	423.00		.00
37	OTHER COOPERATIVE PROGRAMS			SG	FT	1	4.00		.00
38	NATURAL ENVIRONMENT PRESERVATION			SG	FT	3	16.00		.00
39	WILDERNESS AREAS			SG	FT	0	2.00		.00
40	SPECIAL RECOG SPECIES			SG	FT	7	39.00		.00
41	WILDLIFE DIVERSITY			SG	FT	7	35.00		.00
42	WATERFOWL MAINTENANCE			SG	FT	628	3284.00		.00
43	WATERFOWL PRODUCTION			SG	FT	87	430.00		.00
44	SEPARATIONS PREVENTED			SG	FT	0	0.00		.00
45	WORK ELEMENT TOTALS/AVERAGES			SG	FT	1090	5329.00		.00
46	SUP FAC-SSI-RECREATION	10	TRAILS	AS	APP	79	415.00		.00
		12	FISHING	AS	APP	17	94.00		.00
	WORK ELEMENT TOTALS/AVERAGES			AS	APP	96	509.00		.00
46	SUP FAC-SSI-TRANS	10	TRAILS	AS	APP	12	55.00		.00
		13	CONTACT STATIONS	AS	APP	0	2.00		.00
		14	EXHIBITS - DEMONSTRATIONS	AS	APP	5	25.00		.00
		15	OTHER PROGRAMS	AS	APP	10	50.00		.00
		21	TEACHERS	AS	APP	1	5.00		.00
		22	PROFESSIONAL SERVICES	AS	APP	0	1.00		.00
		30	HUNTING MIGRATORY BIRDS	AS	APP	1	4.00		.00
		31	HUNTING RESIDENT GAME	AS	APP	1	1.00		.00
		32	FISHING	AS	APP	1	8.00		.00
		36	PUBLIC AFFAIRS	AS	APP	2	7.00		.00
		35	ECOLOGICAL MONITORING	AS	APP	0	0.00		.00
		36	BANDING	AS	APP	13	62.00		.00

NARS COST INFORMATION SYSTEM
 WORK ELEMENT COST REPORT
 WITH OUTPUT ELEMENT DETAIL
 FINAL FIELD STATION DATA BASE

FY-72 ALL QUARTERS

CITABA

02-3533-00

PROCESSING DATE 12/11/77

WF CODE	WORK ELEMENT	OE CODE	OUTPUT ELEMENT	WE	UNITS ACCOMPLISHED	TOTAL MAN-HOURS	TOTAL COST	MAN-HOURS PER UNIT
OPERATION + MAINTENANCE								
57	OTHER COOPERATIVE PRGMS	AS	APP	0	0	1	.00	.00
60	NATURAL ENVIRONMENT PRESRV	AS	APP	0	0	0	3.00	.00
71	SPECIAL PROCG SPECIES	AS	APP	0	0	1	6.00	.00
72	WILDLIFE DIVERSITY	AS	APP	0	0	1	5.00	.00
73	WATERFOWL MAINTENANCE	AS	APP	0	0	97	4672.00	.00
80	WATERFOWL PRODUCTION	AS	APP	0	0	14	68.00	.00
80	WATERFOWL PRODUCTION	AS	APP	0	0	160	754.00	.00
WORK ELEMENT TOTALS/AVERAGES								
14	CONTACT STATIONS	AS	APP	0	0	2	12.00	.00
72	WILDLIFE DIVERSITY	AS	APP	0	0	16	83.00	.00
73	WATERFOWL MAINTENANCE	AS	APP	0	0	1488	8616.00	.00
WORK ELEMENT TOTALS/AVERAGES								
30	HUNTING MIGRATORY BIRDS	AS	APP	0	0	15	102.00	.00
56	BANDING	AS	APP	0	0	77	526.00	.00
73	WATERFOWL MAINTENANCE	AS	APP	0	0	7	106.00	.00
80	WATERFOWL PRODUCTION	AS	APP	0	0	588	2357.00	.00
90	REPRODUCTION PREVENTED	AS	APP	0	0	1	13.00	.00
WORK ELEMENT TOTALS/AVERAGES								
10	TRAILS	NO.	PLANS	0	0	51	374.00	.00
13	CONTACT STATIONS	NO.	PLANS	0	0	1	7.00	.00
14	EXHIBITS - DEMONSTRATS	NO.	PLANS	0	0	9	72.00	.00
15	OTHER PROGRAMS	NO.	PLANS	0	0	21	155.00	.00
21	TEACHERS	NO.	PLANS	0	0	2	13.00	.00
22	PROFESSIONAL SERVICES	NO.	PLANS	0	0	0	4.00	.00
30	HUNTING MIGRATORY BIRDS	NO.	PLANS	0	0	2	12.00	.00
31	HUNTING RESIDENT GAME	NO.	PLANS	0	0	0	5.00	.00
32	FISHING	NO.	PLANS	0	0	0	23.00	.00
35	WILDLIFE APPROPRIATION	NO.	PLANS	0	0	0	1.00	.00
38	PUBLIC AFFAIRS	NO.	PLANS	0	0	2	20.00	.00
55	ECOLOGICAL MONITORING	NO.	PLANS	0	0	2	9.00	.00
56	BANDING	NO.	PLANS	0	0	26	196.00	.00
57	OTHER COOPERATIVE PRGMS	NO.	PLANS	0	0	0	2.00	.00
60	NATURAL ENVIRONMENT PRESRV	NO.	PLANS	0	0	1	7.00	.00
60	SUP SER-PLANNING							

NHRS COST INFORMATION SYSTEM
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OTTAWA

03-3533-00

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WORK ELEMENT CODE WORK ELEMENT OPERATION + MAINTENANCE OE CODE OUTPUT ELEMENT NO. UNITS ACCOMPLISHED TOTAL MAN-HOURS TOTAL COST MAN-HOURS PER UNIT

WORK ELEMENT CODE	WORK ELEMENT	OPERATION + MAINTENANCE	OE CODE	OUTPUT ELEMENT	NO. UNITS ACCOMPLISHED	TOTAL MAN-HOURS	TOTAL COST	MAN-HOURS PER UNIT
62	WILDERNESS AREAS		62	NO. PLANS	0	0	1.00	.00
71	SPECIAL SPECIES		71	NO. PLANS	0	0	18.00	.00
72	WILDLIFE DIVERSITY		72	NO. PLANS	0	2	15.00	.00
73	WATERFOWL MAINTENANCE		73	NO. PLANS	0	258	2004.00	.00
80	WATERFOWL PRODUCTION		80	NO. PLANS	0	30	220.00	.00
90	DEPRECIATIONS PREVENTED		90	NO. PLANS	0	0	1.00	.00
	WORK ELEMENT TOTALS/AVERAGES			NO. PLANS	0	418	2159.00	.00
62	SUP. SER-ADMINISTRATION		10	TRAILS	0	265	154.00	.00
13	CONTACT STATIONS		13	AS APP	0	10	60.00	.00
14	EXHIBITS - DEMONSTRATIVES		14	AS APP	0	114	676.00	.00
18	OTHER PROGRAMS		18	AS APP	0	220	1005.00	.00
21	TEACHERS		21	AS APP	0	20	120.00	.00
22	PROFESSIONAL SERVICES		22	AS APP	0	7	40.00	.00
30	HUNTING MIGRATORY BIRDS		30	AS APP	0	18	103.00	.00
31	HUNTING ACCIDENT GAME		31	AS APP	0	7	45.00	.00
32	FISHING		32	AS APP	0	36	204.00	.00
33	WILDLIFE APPRECIATION		33	AS APP	0	2	18.00	.00
38	PUBLIC AFFAIRS		38	AS APP	0	31	182.00	.00
55	ECOLOGICAL MONITORING		55	AS APP	0	14	84.00	.00
56	BANDING		56	AS APP	0	202	1181.00	.00
57	OTHER COOPERATIVE PROGRAMS		57	AS APP	0	3	18.00	.00
60	NATURAL ENVIRONMENT PRESERVATION		60	AS APP	0	11	67.00	.00
62	WILDERNESS AREAS		62	AS APP	0	2	9.00	.00
71	SPECIAL SPECIES		71	AS APP	0	40	242.00	.00
72	WILDLIFE DIVERSITY		72	AS APP	0	0	0.00	.00
73	WATERFOWL MAINTENANCE		73	AS APP	0	2816	13051.00	.00
80	WATERFOWL PRODUCTION		80	AS APP	0	320	1888.00	.00
90	DEPRECIATIONS PREVENTED		90	AS APP	0	2	5.00	.00
	WORK ELEMENT TOTALS/AVERAGES			AS APP	0	3658	21791.00	.00
70	SUP EQUIP-AIRCRAFT		10	TRAILS	0	0	2.00	.00
15	OTHER PROGRAMS		15	RRS CREDIT	0	0	2.00	.00
55	ECOLOGICAL MONITORING		55	RRS CREDIT	0	0	1.00	.00
56	BANDING		56	RRS CREDIT	0	0	1.00	.00

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03-3533-00

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MAN-HOURS PER UNIT

TOTAL MAN-HOURS

UNITS ACCOMPLISHED

WE

OUTPUT ELEMENT

OE CODE

WORK ELEMENT

OPERATION + MAINTENANCE

TOTAL COST

WE CODE	WORK ELEMENT	OE CODE	OUTPUT ELEMENT	WE	UNITS ACCOMPLISHED	TOTAL MAN-HOURS	TOTAL COST	MAN-HOURS PER UNIT
			WORK ELEMENT TOTALS/AVERAGES					
71	SUP EQUIP-AUTO EQUIP							
		71	SPECIAL RECGG SPECIES	HRS	OPERTD	0	1.00	.00
		73	WATERFOWL MAINTENANCE	HRS	OPERTD	0	13.00	.00
		80	WATERFOWL PRODUCTION	HRS	OPERTC	0	2.00	.00
			WORK ELEMENT TOTALS/AVERAGES			0	22.00	.00
			TRAILS	MI	OPERTD	0	424.00	.00
		10	CONTACT STATIONS	MI	OPERTD	26	12.00	.00
		14	EXHIBITS - DEMONSTRATNS	MI	OPERTD	15	236.00	.00
		15	OTHER PROGRAMS	MI	OPERTD	31	500.00	.00
		21	TEACHERS	MI	OPERTD	3	45.00	.00
		22	PROFESSIONAL SERVICES	MI	OPERTD	1	14.00	.00
		30	HUNTING MIGRATORY BIRDS	MI	OPERTD	2	37.00	.00
		31	HUNTING RESIDENT GAME	MI	OPERTD	1	14.00	.00
		32	FISHING	MI	OPERTD	5	76.00	.00
		35	WILDLIFE APPRECIATION	MI	OPERTD	0	6.00	.00
		38	PUBLIC AFFAIRS	MI	OPERTD	4	65.00	.00
		55	ECOLOGICAL MONITORING	MI	OPERTD	2	51.00	.00
		56	BANDING	MI	OPERTD	0	647.00	.00
		57	OTHER COOPERATIVE PRGMS	MI	OPERTD	0	6.00	.00
		60	NATURAL ENVRNMT PRESRVD	MI	OPERTD	2	25.00	.00
		62	WILDERNESS AREAS	MI	OPERTD	0	3.00	.00
		71	SPECIAL RECGG SPECIES	MI	OPERTD	3	53.00	.00
		72	WILDLIFE DIVERSITY	MI	OPERTD	3	51.00	.00
		73	WATERFOWL MAINTENANCE	MI	OPERTD	0	4950.00	.00
		80	WATERFOWL PRODUCTION	MI	OPERTD	56	773.00	.00
		90	DEPRECIATIONS PREVENTED	MI	OPERTD	0	3.00	.00
			WORK ELEMENT TOTALS/AVERAGES			512	9010.00	.00
72	SUP EQUIP-FARM EQUIP							
		10	TRAILS	HRS	OPERTD	14	90.00	.00
		13	CONTACT STATIONS	HRS	OPERTD	0	3.00	.00
		14	EXHIBITS - DEMONSTRATNS	HRS	OPERTD	6	38.00	.00
		15	OTHER PROGRAMS	HRS	OPERTD	13	82.00	.00
		21	TEACHERS	HRS	OPERTD	1	7.00	.00
		22	PROFESSIONAL SERVICES	HRS	OPERTD	0	2.00	.00
		30	HUNTING MIGRATORY BIRDS	HRS	OPERTC	1	6.00	.00

NMRS COST INFORMATION SYSTEM
 WORK ELEMENT COST REPORT
 WITH OUTPUT ELEMENT DETAIL
 FINAL FIELD STATION DATA BASE

FY-73 ALL QUARTERS

OTTAWA

02-3533-00

WE CODE WORK ELEMENT OE CODE OUTPUT ELEMENT WE UNITS ACCOMPLISHED TOTAL MAN-HOURS TOTAL COST MAN-HOURS PER UNIT DATE 12/11/77

OPERATION + MAINTENANCE

WE CODE	WORK ELEMENT	OE CODE	OUTPUT ELEMENT	WE	UNITS ACCOMPLISHED	TOTAL MAN-HOURS	TOTAL COST	MAN-HOURS PER UNIT	DATE
		31	HUNTING RESIDENT GAME	HRS	OPERTD	1	2.00	.00	
		32	FISHING	HRS	OPERTD	1	13.00	.00	
		35	WILDLIFE APPRECIATION	HRS	OPERTD	1	.00	.00	
		38	PUBLIC AFFAIRS	HRS	OPERTD	1	11.00	.00	
		55	ECOLOGICAL MONITORING	HRS	OPERTD	1	5.00	.00	
		56	BANDING	HRS	OPERTD	16	103.00	.00	
		57	OTHER COOPERATIVE PRGMS	HRS	OPERTD	0	1.00	.00	
		60	NATURAL ENVRNMT PRESRVD	HRS	OPERTD	0	2.00	.00	
		62	WILDERNESS AREAS	HRS	OPERTD	0	7.00	.00	
		71	SPECIAL RECOG SPECIES	HRS	OPERTD	1	9.00	.00	
		72	WILDLIFE DIVERSITY	HRS	OPERTD	1	8.00	.00	
		73	WATERFOWL MAINTENANCE	HRS	OPERTD	118	925.00	.00	
		80	WATERFOWL MAINTENANCE	HRS	OPERTD	17	109.00	.00	
		90	DEPRECIATIONS PREVENTED	HRS	OPERTD	0	1.00	.00	
			WORK ELEMENT TOTALS/AVERAGES	HRS	OPERTD	194	1420.00	.00	
73	SUP EQUIP--HEAVY EQUIP	10	TRAILS	HRS	OPERTD	3	30.00	.00	
		13	CONTACT STATIONS	HRS	OPERTD	0	2.00	.00	
		14	EXHIBITS - DEMONSTRATNS	HRS	OPERTD	0	12.00	.00	
		15	OTHER PROGRAMS	HRS	OPERTD	3	28.00	.00	
		21	TEACHERS	HRS	OPERTD	0	2.00	.00	
		22	PROFESSIONAL SERVICES	HRS	OPERTD	0	1.00	.00	
		30	HUNTING MIGRATORY BIRDS	HRS	OPERTD	0	2.00	.00	
		31	HUNTING RESIDENT GAME	HRS	OPERTD	0	1.00	.00	
		32	FISHING	HRS	OPERTD	1	4.00	.00	
		38	PUBLIC AFFAIRS	HRS	OPERTD	0	4.00	.00	
		55	ECOLOGICAL MONITORING	HRS	OPERTD	0	2.00	.00	
		56	BANDING	HRS	OPERTD	0	34.00	.00	
		57	OTHER COOPERATIVE PRGMS	HRS	OPERTD	0	1.00	.00	
		60	NATURAL ENVRNMT PRESRVD	HRS	OPERTD	0	1.00	.00	
		71	SPECIAL RECOG SPECIES	HRS	OPERTD	0	3.00	.00	
		72	WILDLIFE DIVERSITY	HRS	OPERTD	0	3.00	.00	
		73	WATERFOWL MAINTENANCE	HRS	OPERTD	1	3.00	.00	
		80	WATERFOWL MAINTENANCE	HRS	OPERTD	26	255.00	.00	
			WORK ELEMENT TOTALS/AVERAGES	HRS	OPERTD	4	37.00	.00	
				HRS	OPERTD	44	422.00	.00	

NWRS COST INFORMATION SYSTEM
 WORK ELEMENT COST REPORT
 WITH OUTPUT ELEMENT DETAIL
 FINAL FIELD STATION DATA BASE

FY-73 ALL QUARTERS

OTTAWA

03-3593-00

PROCESSING DATE 12/11/73

WE CODE WORK ELEMENT SE CODE OUTPUT ELEMENT WE UNITS ACCOMPLISHED TOTAL MAN-HOURS TOTAL COST MAN-HOURS PER UNIT COST PER UNIT

OPERATION + MAINTENANCE

WE CODE	WORK ELEMENT	SE CODE	OUTPUT ELEMENT	WE	UNITS ACCOMPLISHED	TOTAL MAN-HOURS	TOTAL COST	MAN-HOURS PER UNIT	COST PER UNIT
74	SUP EQUIP-WATERCRAFT	10	TRAILS	HRS	OPERATD	1	6.00	.00	.00
		13	CONTACT STATIONS	HRS	OPERATD	0	1.00	.00	.00
		14	EXHIBITS + DEMONSTRATIONS	HRS	OPERATD	0	2.00	.00	.00
		15	OTHER PROGRAMS	HRS	OPERATD	1	6.00	.00	.00
		21	TEACHING	HRS	OPERATD	0	1.00	.00	.00
		21	HUNTING RESIDENT GAME	HRS	OPERATD	0	1.00	.00	.00
		22	FISHING	HRS	OPERATD	0	1.00	.00	.00
		25	ECOLOGICAL MONITORING	HRS	OPERATD	0	1.00	.00	.00
		26	BANDING	HRS	OPERATD	0	1.00	.00	.00
		60	NATURAL ENVIRNMT PRESRVD	HRS	OPERATD	1	1.00	.00	.00
		62	WILDERNESS AREAS	HRS	OPERATD	0	1.00	.00	.00
		72	WILDLIFE DIVERSITY	HRS	OPERATD	0	1.00	.00	.00
		73	WATERFOWL MAINTENANCE	HRS	OPERATD	1	50.00	.00	.00
		80	WATERFOWL PRODUCTION	HRS	OPERATD	1	6.00	.00	.00
			ELEMENT TOTALS/AVERAGES			12	90.00	.00	.00
75	SUP EQUIP-OTH MOTOR	EQ 13	WATERFOWL MAINTENANCE	HRS	OPERATD	0	2022.00	.00	.00
			ELEMENT TOTALS/AVERAGES			318	2022.00	.00	.00

OPERATIONS + MAINTENANCE TOTAL

10861 75539.00

NWRS COST INFORMATION SYSTEM
 WORK ELEMENT COST REPORT
 WITH OUTPUT ELEMENT DETAIL
 FINAL FIELD STATION DATA BASE

RV-72 ALL CONVERTERS

DARBY MARSH

03-2533-03

PROCESSING DATE 12/11/77

MAN-HOURS
 PER UNIT

TOTAL
 COST

TOTAL
 MAN-HOURS

UNITS
 ACCOMPLISHED

WE

OUTPUT ELEMENT

OE
 CODE

WORK ELEMENT

WE
 CODE

OPERATION + MAINTENANCE

20 OPERATION-LITTER CONT. (DISTRIBUTIVE)
 WORK ELEMENT TOTALS/AVERAGES

NO. PROJECT
 NO. PROJECT

18.00
 18.00

0.00
 0.00

OPERATIONS + MAINTENANCE TOTAL

18.00

0

0

0

0

0

0

0

0

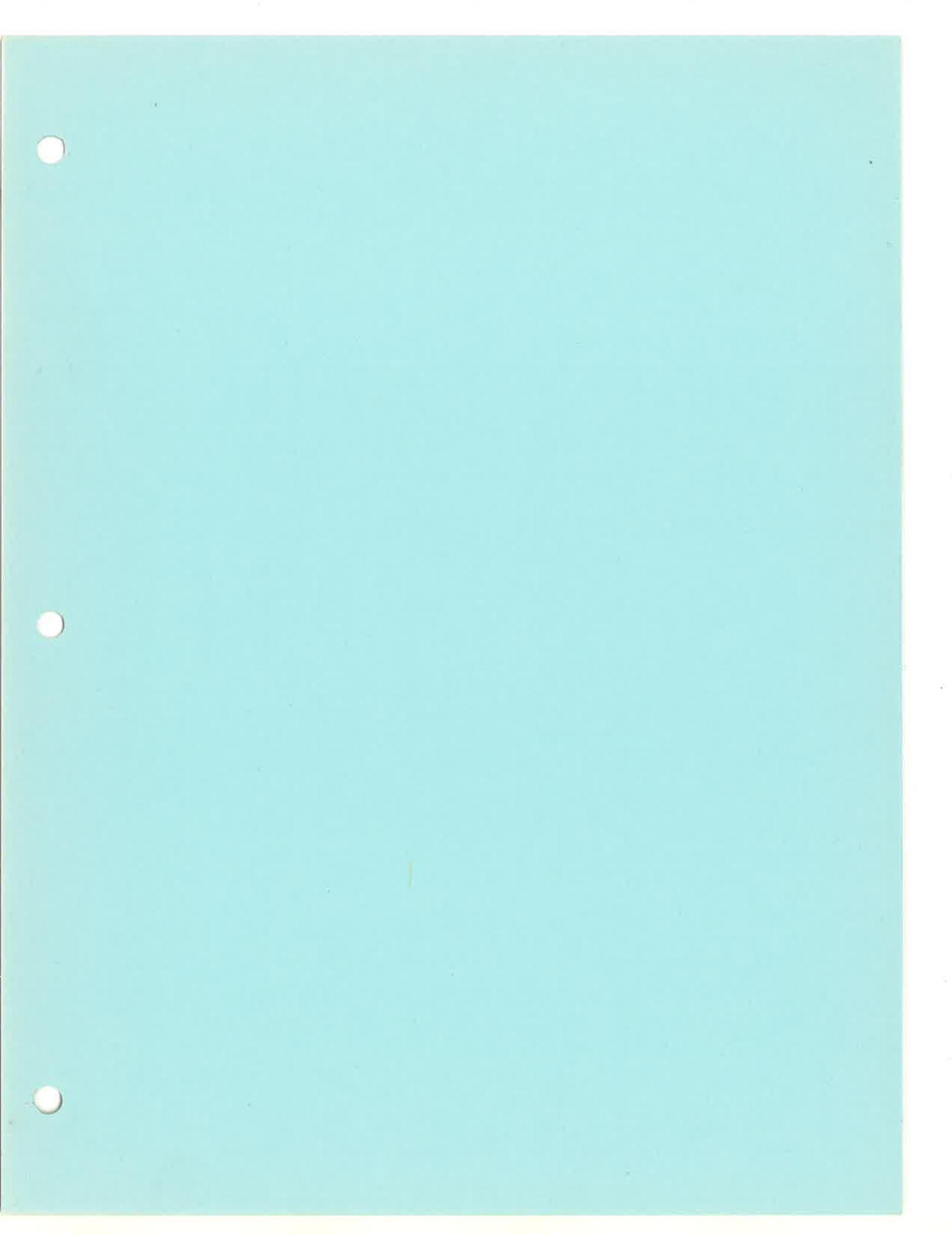
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JAN 11 1974

OLIVER A. WILSON
WILDLIFE REFUGE

BASS STOCK REPRODUCTION SYSTEM
ADDITIONAL BASS STOCK REPORT
FOR THE YEAR ENDING 12/31/73

REPORT PREPARED BY: JIM A. BASS
DATE: 1/10/74

OTW 44

2-3513-60

STATION	DATE	DESCRIPTION	NO. BASS	NO. BASS	NO. BASS	TOTAL	NO. BASS	NO. BASS
			ADDED	REMOVED	REMOVED	REMOVED	REMOVED	REMOVED
12	12/15/73	Stocking	100	0	0	100	0	0
13	12/15/73	Stocking	100	0	0	100	0	0
14	12/15/73	Stocking	100	0	0	100	0	0
15	12/15/73	Stocking	100	0	0	100	0	0
16	12/15/73	Stocking	100	0	0	100	0	0
17	12/15/73	Stocking	100	0	0	100	0	0
18	12/15/73	Stocking	100	0	0	100	0	0
19	12/15/73	Stocking	100	0	0	100	0	0
20	12/15/73	Stocking	100	0	0	100	0	0
21	12/15/73	Stocking	100	0	0	100	0	0
22	12/15/73	Stocking	100	0	0	100	0	0
23	12/15/73	Stocking	100	0	0	100	0	0
24	12/15/73	Stocking	100	0	0	100	0	0
25	12/15/73	Stocking	100	0	0	100	0	0
26	12/15/73	Stocking	100	0	0	100	0	0
27	12/15/73	Stocking	100	0	0	100	0	0
28	12/15/73	Stocking	100	0	0	100	0	0
29	12/15/73	Stocking	100	0	0	100	0	0
30	12/15/73	Stocking	100	0	0	100	0	0
31	12/15/73	Stocking	100	0	0	100	0	0
32	12/15/73	Stocking	100	0	0	100	0	0
33	12/15/73	Stocking	100	0	0	100	0	0
34	12/15/73	Stocking	100	0	0	100	0	0
35	12/15/73	Stocking	100	0	0	100	0	0
36	12/15/73	Stocking	100	0	0	100	0	0
37	12/15/73	Stocking	100	0	0	100	0	0
38	12/15/73	Stocking	100	0	0	100	0	0
39	12/15/73	Stocking	100	0	0	100	0	0
40	12/15/73	Stocking	100	0	0	100	0	0
41	12/15/73	Stocking	100	0	0	100	0	0
42	12/15/73	Stocking	100	0	0	100	0	0
43	12/15/73	Stocking	100	0	0	100	0	0
44	12/15/73	Stocking	100	0	0	100	0	0
45	12/15/73	Stocking	100	0	0	100	0	0
46	12/15/73	Stocking	100	0	0	100	0	0
47	12/15/73	Stocking	100	0	0	100	0	0
48	12/15/73	Stocking	100	0	0	100	0	0
49	12/15/73	Stocking	100	0	0	100	0	0
50	12/15/73	Stocking	100	0	0	100	0	0
51	12/15/73	Stocking	100	0	0	100	0	0
52	12/15/73	Stocking	100	0	0	100	0	0
53	12/15/73	Stocking	100	0	0	100	0	0
54	12/15/73	Stocking	100	0	0	100	0	0
55	12/15/73	Stocking	100	0	0	100	0	0
56	12/15/73	Stocking	100	0	0	100	0	0
57	12/15/73	Stocking	100	0	0	100	0	0
58	12/15/73	Stocking	100	0	0	100	0	0
59	12/15/73	Stocking	100	0	0	100	0	0
60	12/15/73	Stocking	100	0	0	100	0	0
61	12/15/73	Stocking	100	0	0	100	0	0
62	12/15/73	Stocking	100	0	0	100	0	0
63	12/15/73	Stocking	100	0	0	100	0	0
64	12/15/73	Stocking	100	0	0	100	0	0
65	12/15/73	Stocking	100	0	0	100	0	0
66	12/15/73	Stocking	100	0	0	100	0	0
67	12/15/73	Stocking	100	0	0	100	0	0
68	12/15/73	Stocking	100	0	0	100	0	0
69	12/15/73	Stocking	100	0	0	100	0	0
70	12/15/73	Stocking	100	0	0	100	0	0
71	12/15/73	Stocking	100	0	0	100	0	0
72	12/15/73	Stocking	100	0	0	100	0	0
73	12/15/73	Stocking	100	0	0	100	0	0
74	12/15/73	Stocking	100	0	0	100	0	0
75	12/15/73	Stocking	100	0	0	100	0	0
76	12/15/73	Stocking	100	0	0	100	0	0
77	12/15/73	Stocking	100	0	0	100	0	0
78	12/15/73	Stocking	100	0	0	100	0	0
79	12/15/73	Stocking	100	0	0	100	0	0
80	12/15/73	Stocking	100	0	0	100	0	0
81	12/15/73	Stocking	100	0	0	100	0	0
82	12/15/73	Stocking	100	0	0	100	0	0
83	12/15/73	Stocking	100	0	0	100	0	0
84	12/15/73	Stocking	100	0	0	100	0	0
85	12/15/73	Stocking	100	0	0	100	0	0
86	12/15/73	Stocking	100	0	0	100	0	0
87	12/15/73	Stocking	100	0	0	100	0	0
88	12/15/73	Stocking	100	0	0	100	0	0
89	12/15/73	Stocking	100	0	0	100	0	0
90	12/15/73	Stocking	100	0	0	100	0	0
91	12/15/73	Stocking	100	0	0	100	0	0
92	12/15/73	Stocking	100	0	0	100	0	0
93	12/15/73	Stocking	100	0	0	100	0	0
94	12/15/73	Stocking	100	0	0	100	0	0
95	12/15/73	Stocking	100	0	0	100	0	0
96	12/15/73	Stocking	100	0	0	100	0	0
97	12/15/73	Stocking	100	0	0	100	0	0
98	12/15/73	Stocking	100	0	0	100	0	0
99	12/15/73	Stocking	100	0	0	100	0	0
100	12/15/73	Stocking	100	0	0	100	0	0



SWISS MISS FURTHER OFFERED
 PAYMENT ELEMENT COST ACCOUNT
 UNDER THE FOLLOWING TERMS:

CONTRACTING TO BE COMPLETED WITHIN 60 DAYS
 FROM THE DATE OF AWARD

PROPOSAL NUMBER

05-35733

DATE OF
 OFFER

NO. OF
 UNITS

NO. OF
 UNITS

PROPOSING
 OFFER

12-11-57

NO. OF
 UNITS

11-15-57

11-15-57

11-15-57

11-15-57

TOTAL
 UNITS

10,000

TOTAL
 UNITS

10,000

10,000

COMPLETION DATE

12-31-57

Return 7/1

REFUGEE PROGRAM SCHEDULE
PART A-I

OTTAWA
33-3533-00-0TW

CATEGORIES	TYPE OF UNITS	LINE CODE	CY-73 CURRENT YR	BY-74 BUDGET YR	PY-75 PROGRAM YR	NO FUNDS INCREASE OBJECTIVE	OBJECTIVE LEVEL
CAPITAL INVESTMENT							
CONSTRUCTION							
BLDGS - QUARTERS	DOLLARS	104-KQ	63100				
ENGINEERING SERVICES	DOLLARS	171-JE	13900				
TOTAL CAPITAL INVESTMENT	DOLLARS	210-KC	77000				
OPERATION + MAINTENANCE							
OPERATIONS	DOLLARS	229-JG	33300	22000	22000	22000	91950
SUPPORTING FACILITIES	DOLLARS	259-KL	50600	69700	69700	69700	174500
SUPPORTING SERVICES	DOLLARS	269-KV	4900	4400	4400	4400	9650
SUPPORTING EQUIPMENT	DOLLARS	279-KP	10200	2900	2900	2900	8800
TOTAL OPERATION & MAINT	DOLLARS	410-KM	99000	99000	99000	99000	284900
MANPOWER							
PERMANENT FULL TIME	MAN-MONTHS	501-JP	72.0	72.0	72.0	72.0	156.0
ALL OTHER	MAN-MONTHS	502-JT	8.5	8.5	8.5	8.5	34.4
TOTAL MANPOWER	MAN-MONTHS	510-JM	80.5	80.5	80.5	80.5	190.4
OUTPUT CATEGORIES							
INTERPRETATION							
TRAILS	ACT HOURS	610-IF	150000	200000	273100	273100	404000
TOUR ROUTES	ACT HOURS	611-IA					234000
CENTERS	ACT HOURS	612-IC					300000
EXHIBITS - DEMONSTRATNS	ACT HOURS	614-IE	64200	64500	64500	64500	69125
OTHER PROGRAMS	ACT HOURS	615-IX	5000	5000	5000	103000	135600
EDUCATION							
STUDENTS	ACT HOURS	620-ES	600	1600	1600	1600	151600
TEACHERS	ACT HOURS	621-ET	200	200	200	200	400
PROFESSIONAL SERVICES	ACT HOURS	622-EP	100	400	400	400	850
RECREATION-W/W ORIENTED							
HUNTING MIGRATORY BIRDS	ACT HOURS	630-RM					11600
HUNTING RESIDENT GAME	ACT HOURS	631-RG					8000
FISHING	ACT HOURS	632-RF	4000	7000	7000	7000	160000
WILDLIFE OBSERVATION	ACT HOURS	634-RV	2500	150000	150000	150000	225000
WILDLIFE APPRECIATION	ACT HOURS	635-RA	1800	1800	1800	1800	304000
PHOTOGRAPHY	ACT HOURS	636-RH	200	2000	4000	6000	6000
PUBLIC AFFAIRS	PROGRAMS	638-RQ	25	39	53	85	89
RECREATION-NON W/W ORIENTED							
CAMPING	ACT HOURS	640-RC	1000	1000	1000	1000	1000
STUDIES + PUBLICATIONS	EACH	650-SS	2	1	1	11	11

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REFUGE PROGRAM SCHEDULE
PART A-I

OTTAWA
03-3533-00-OTW

CATEGORIES	TYPE OF UNITS	LINE CODE	CY-73 CURRENT YR	BY-74 BUDGET YR	PY-75 PROGRAM YR	NO FUNDS INCREASE OBJECTIVE	OBJECTIVE LEVEL
COOPERATIVE PROGRAMS	PROGRAM	655-CM	6	6	6	6	6
ECOLOGICAL MONITORING	PROGRAM	656-CB	4	4	4	6	6
SANDING							
ENVIRONMENTAL PRESERVATION	ACRE	660-NP	8220	8220	8220	8220	8220
NATURAL ENVRNMT PRESRVD	AREA	662-NW	1	1	1	1	1
WILDERNESS AREAS							
WILDLIFE MAINTENANCE	USE DAYS	671-MR	1539300	6230600	6230600	6230600	6464000
SPECIAL RECOG SPECIES	NO. SPECS	672-MD	334	334	334	334	365
WILDLIFE DIVERSITY	USE DAYS	673-MW	5560000	5550000	5550000	5550000	5750000
WATERFOWL MAINTENANCE							
WILDLIFE PRODUCTION	EA. ANIMAL	680-PW	609	1100	1600	2200	2200
WATERFOWL PRODUCTION							
ECONOMIC BENEFITS	DOLLARS	693-BH				1500	1500
HAYING & GRAZING	DOLLARS	694-BF	4000	5000	5000	5000	9000
FURBEARERS	DOLLARS	698-BX	3745	5000	5000	5000	8200
OTHER (WATER FEES ETC)							
OUTPUT TOTALS (CONTROL)		799-XX	7345846	12183805	12309419	12411563	14254773
PROGRAM ANALYSIS	RBU'S	810-XA	99039900	114506500	123614500	130844500	242472000
TOTAL ANNUAL BENEFITS	DOLLARS	820-XD	163440	161600	160330	151020	446070
TOTAL ANNUAL COST							

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APR 30 1973

OTTAWA NATIONAL
WILDLIFE REFUGE

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REFUGEE PROGRAM SCHEDULE
PART A-II

OTTAWA
33-3533-CO-OTW

CATEGORIES	TYPE OF UNITS	LINE CODE	PACKAGE 01	PACKAGE 02	PACKAGE 03	PACKAGE 04	PACKAGE 05	PACKAGE 06
NUMBER SEQUENCE		010-WN	1	2	3	4	5	6
MAJOR PROGRAM		020-WS			1	2		
		030-WP	108	1	5	1	108	
CAPITAL INVESTMENT								
CONSTRUCTION								
BLDGS - GEN'L (NON-REC)	DOLLARS	113-KG						3000
BLDG - RECREATIONAL	DOLLARS	120-KH		191000	8400	6000		
STRUC & IMP - RECREATNL	DOLLARS	132-KI				10000		
STRUC & IMP - TRANSPRTN	DOLLARS	142-KT						100000
STRUC & IMP - WATER	DOLLARS	156-KW	109000	2000	4000	10000	236000	
STRUC & IMP - OTHER	DOLLARS	168-JI		59000				
ENGINEERING SERVICES	DOLLARS	171-JE	19500	45000		1500	42000	18000
OTHER CAPITAL INVESTMENT	DOLLARS	178-JQ		3000				52000
TOTAL CAPITAL INVESTMENT	DOLLARS	210-KC	128500	300000	12400	27500	278000	173000
OPERATION + MAINTENANCE								
OPERATIONS	DOLLARS	229-JG	650	18800	6700	3800	1200	
SUPPORTING FACILITIES	DOLLARS	259-KL	1800	5000	400	1300	3100	9000
SUPPORTING SERVICES	DOLLARS	269-KV	250	200		200	200	
SUPPORTING EQUIPMENT	DOLLARS	279-KP	300	1300		300	300	
TOTAL OPERATION & MAINT	DOLLARS	410-KM	3000	25300	7100	5600	4800	9000
MANPOWER								
PERMANENT FULL TIME	MAN-MONTHS	501-JP	1.7	15.3	7.4	2.6	2.2	2.0
ALL OTHER	MAN-MONTHS	502-JT	.2	12.9	.4	2.9	.2	.9
TOTAL MANPOWER	MAN-MONTHS	510-JM	1.9	28.2	7.8	5.5	2.4	2.9
OUTPUT CATEGORIES								
INTERPRETATION								
TRAILS	ACT HOURS	610-IF		300000		130900		
CENTERS	ACT HOURS	612-IC						
EDUCATION								
STUDENTS	ACT HOURS	620-ES			150000			
TEACHERS	ACT HOURS	621-ET			200			
ECONOMIC BENEFITS								
FURBEARERS	DOLLARS	694-BF	500				500	
OTHER (WATER FEES ETC)	DOLLARS	698-BX	400				400	
OUTPUT TOTALS (CONTROL)		799-XX	900	300000	150200	130900	900	

REFUGE PROGRAM SCHEDULE
PART A-II

OTTAWA
03-533-00-0TW

CATEGORIES	TYPE OF UNITS	LINE CODE	PACKAGE 01	PACKAGE 02	PACKAGE 03	PACKAGE 04	PACKAGE 05	PACKAGE 06
PROGRAM ANALYSIS								
TOTAL ANNUAL BENEFITS	RBU'S	810-XA	6000	30000000	22500000	13090000		
TOTAL ANNUAL COST	DOLLARS	820-XD	5500	31200	7400	6700	12300	6050
TOT AN COST - RESTRATN	DOLLARS	830-XR		31200	7400	6700	10400	6050

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OTTAWA NATIONAL
WILDLIFE REFUGE

REFUGEE PROGRAM SCHEDULE
PART A-II

OTTAWA
03-3533-00-0TW

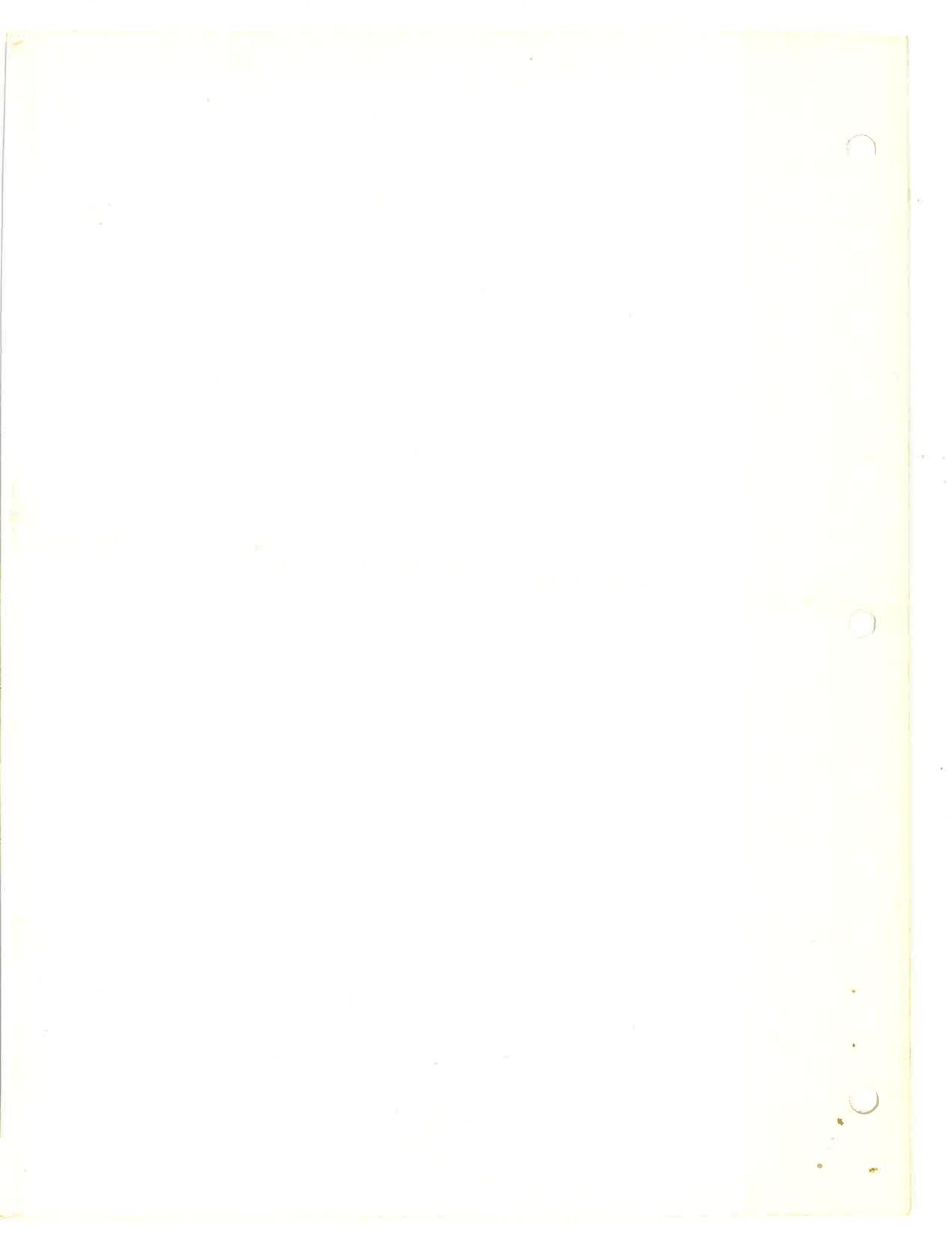
CATEGORIES	TYPE OF UNITS	LINE CODE	PACKAGE 07	PACKAGE 08
NUMBER SEQUENCE		010-WN	7	8
		020-WS	6	1 5 7
MAJOR PROGRAM		030-WP	1	2 6
			108	
CAPITAL INVESTMENT				
CONSTRUCTION				
BLDGS - RECREATIONAL	DOLLARS	120-KH		25500
STRUC & IMP - RECREATNL	DOLLARS	132-KI		131500
STRUC & IMP - TRANSPRTN	DOLLARS	142-KT		331400
STRUC & IMP - WATER	DOLLARS	156-KW	67000	1205600
STRUC & IMP - OTHER	DOLLARS	168-JI		61700
ENGINEERING SERVICES	DOLLARS	171-JE	12000	298500
OTHER CAPITAL INVESTMENT				
EQUIPMENT	DOLLARS	178-JQ		1500
TOTAL CAPITAL INVESTMENT	DOLLARS	210-KC	79000	2055700
OPERATION + MAINTENANCE				
OPERATIONS	DOLLARS	229-JG	800	38000
SUPPORTING FACILITIES	DOLLARS	259-KL	1900	82300
SUPPORTING SERVICES	DOLLARS	269-KV	200	4200
SUPPORTING EQUIPMENT	DOLLARS	279-KP	200	3500
TOTAL OPERATION & MAINT	DOLLARS	410-KM	3100	128000
MANPOWER				
PERMANENT FULL TIME	MAN-MONTHS	501-JP	1.6	51.2
ALL OTHER	MAN-MONTHS	502-JT	.1	8.3
TOTAL MANPOWER	MAN-MONTHS	510-JM	1.7	59.5
OUTPUT CATEGORIES				
INTERPRETATION				
TOUR ROUTES	ACT HOURS	611-IA		234000
EXHIBITS - DEMONSTRATNS	ACT HOURS	614-IE		4625
OTHER PROGRAMS	ACT HOURS	615-IX		32600
EDUCATION				
PROFESSIONAL SERVICES	ACT HOURS	622-EP		450
RECREATION-W/W ORIENTED				
HUNTING MIGRATORY BIRDS	ACT HOURS	630-RM		11600
HUNTING RESIDENT GAME	ACT HOURS	631-RG		8000
FISHING	ACT HOURS	632-RF		153000
WILDLIFE OBSERVATION	ACT HOURS	634-RV		75000
WILDLIFE APPRECIATION	ACT HOURS	635-RA		302200

REFUGE PROGRAM SCHEDULE
PART A-II

OTTAWA
03-3533-CO-OTW

CATEGORIES	TYPE OF UNITS	LINE CODE	PACKAGE 07	PACKAGE 08
OUTPUT CATEGORIES				
RECREATION-W/W ORIENTED	PROGRAMS	638-RQ		4
PUBLIC AFFAIRS				
WILDLIFE MAINTENANCE	USE DAYS	671-MR		233400
SPECIAL RECOG SPFCIES	NO. SPECS	672-MD		31
WILDLIFE DIVERSITY	USE DAYS	673-MW		200000
WATERFOWL MAINTENANCE				
ECONOMIC BENEFITS				
FURBEARERS	DOLLARS	694-BF	500	2500
OTHER (WATER FEES ETC)	DOLLARS	698-BX	400	2000
OUTPUT TOTALS (CONTROL)		799-XX	900	1259410
PROGRAM ANALYSIS				
TOTAL ANNUAL BENEFITS	RBU'S	810-XA		46037500
TOTAL ANNUAL COST	DOLLARS	820-XD	5600	219800
TOT AN COST - RESTRATN	DOLLARS	830-XR	4700	136300

RECEIVED
APR 30 1973
OTTAWA NATIONAL
WILDLIFE REFUGE



ANNUAL WORK PLAN
FISCAL YEAR 73

03353300 OTTAWA

ELEMENT	TYPE OF UNIT	LINE CODE	UNITS	FUNDS	PMM	TMM
CAPITAL INVESTMENT						
S&I-WATER-SANITAT'N SER	SANIT SITE	153	5	63,000		
ENG SER-PLANNING	STUDY	171	1	14,000		
C. I. CONTROL TOTALS	N/A	199	6	77,000		
OPERATION AND MAINTENANCE						
OPERATION-ANALYSIS	NO. TESTS	201	24	500	.1	
OPERATION-SURVEYS	NO. SURVEY	202	51	2,800	2.5	2.0
OPERATION-FARMING	A. FARMED	203		7,500	4.2	
OPERATION-GRASSLD PRAC	A. TREATED	204	2,000	500	.1	
OPERATION-PEST PLT CON	A. TREATED	205	3	500	.1	
OPERATION-WAT LEVEL MGT	A. MANAGED	207	3,120	700	.8	
OPERATION-TREE & SHRUB	A. PLANTED	209	5	1,200	1.0	
OPERATION-ANIMAL CONT	NO. AN CON	211	5,000	3,200	2.4	
OPERATION-BIRD MARKING	NO. MARKED	214	1,200	1,700	1.5	
OPERATION-ANIM COLLECT	NO. COLCTD	216	12	500	.1	
OPERATION-ENVR R & M	NO. PROJCT	219	13	2,800	1.3	
OPERATION-LITTER CONT	NO. PROJCT	220	4	2,900	2.5	
OPERATION-PUBLIC INQ	NO. RESPON	221		500	.5	
OPERATION-PUBLIC PROG	NO. PROGMS	222	1,500	3,600	3.5	
OPERATION-PROTECTION	AS APP	223	110	3,200	3.0	
OPERATION-OTH OPERATION	AS APP	227		1,200	.5	
SUP FAC-BLDG-QTRS	SQ. FT	240		7,600	3.0	
SUP FAC-BLDG-GEN NON-RC	SQ. FT	241	6,400	11,500	9.0	2.0
SUP FAC-BLDG-RECREATION	SQ. FT	242	23,338	400	.5	
SUP FAC-S&I-RECREATION	AS APP	245		3,300	1.5	1.4
SUP FAC-S&I-TRANS NON-R	AS APP	246		7,100	6.0	.5
SUP FAC-S&I-WATER	AS APP	247		17,300	18.0	2.0
SUP FAC-S&I-OTHER	AS APP	249		3,400	3.4	
SUP SER-PLANNING	NO. PLANS	260	10	4,100	3.7	
SUP SER-TRAINING	HRS TRAING	261	80	500	.5	
SUP SER-ADMINISTRATION	AS APP	262		300	.2	
SUP EQUIP-AUTO EQUIP	MI OPERTD	271	45,000	6,200	1.6	
SUP EQUIP-FARM EQUIP	HRS OPERTD	272	200	1,100	.1	
SUP EQUIP-HEAVY EQUIP	HRS OPERTD	273	200	2,300	.4	
SUP EQUIP-WATERCRAFT	HRS OPERTD	274	50	100		
SUP EQUIP-OTH MOTOR EQ	HRS OPERTD	275	250	100		
SUP EQUIP-COMM EQUIP	NO. SETS	276	8	400		
O & M CONTROL TOTALS	N/A	299	88,838	99,000	72.0	8.5

(CONT INUED)

ANNUAL WORK PLAN
FISCAL YEAR 73

03353300 OTTAWA

ELEMENT TYPE OF UNIT LINE CODE UNITS FUNDS PMM TMM

PLANNING ALLOWANCE BY ACT

ACTIVITY-0221	N/A	300		77,000		
ACTIVITY-0141	N/A	301		96,000		
ACTIVITY-0170	N/A	302		3,000		
ACTIVITY CONTROL TOTALS	N/A	399		176,000		

OUTPUT PRODUCTION

TRAILS	ACT HOURS	610	150,000		
EXHIBITS - DEMONSTRATNS	ACT HOURS	614	64,000		
OTHER PROGRAMS	ACT HOURS	615	5,000		
STUDENTS	ACT HOURS	620	600		
TEACHERS	ACT HOURS	621	200		
PROFESSIONAL SERVICES	ACT HOURS	622	100		
FISHING	ACT HOURS	632	4,000		
WILDLIFE OBSERVATION	ACT HOURS	634	2,500		
WILDLIFE APPRECIATION	ACT HOURS	635	1,800		
PHOTOGRAPHY	ACT HOURS	636	200		
PUBLIC AFFAIRS	PROGRAMS	638	25		
STUDIES & PUBLICATIONS	EACH	650	2		
ECOLOGICAL MONITORING	PROGRAM	655	5		
BANDING	PROGRAM	656	3		
OTHER COOPERATIVE PRGMS	PROGRAM	657	1		
NATURAL ENVRNMT PRESRVD	ACRE	660	8,220		
WILDERNESS AREAS	AREA	662	1		
WILDLIFE DIVERSITY	NO. SPECS	672	269		
WATERFOWL MAINTENANCE	USE DAYS	673	5,550,000		
WATERFOWL PRODUCTION	EA. ANIMAL	680	1,050		
SPECIES DONATED	EA. ANIMAL	682	10		
FURBEARERS	DOLLARS	694	4,000		
OTHER (WATER FEES ETC)	DOLLARS	698	3,745		
OUTPUT TOTALS (CONTROL)	DOLLARS	799	5,795,731		
TOTAL ANNUAL BENEFITS	RBU'S	810	90,092,000		

OTTAWA NATIONAL
WILDLIFE REFUGE

DEC 19 1972

RECEIVED

Waterfowl Hunter Kill Survey

Refuge Ottawa, Cedar Point, West Sister Island

Year 1968 73

(1) Weeks of Hunting	(2) No. Hunters Checked	(3) Hunter Hours	(4) Waterfowl Species and Nos. of Each Bagged	(5) Total Bagged	(6) Crippling Loss	(7) Total Kill	(8) Est.No. Hunters	(9) Est. Total Kill
			No waterfowl hunting is conducted at this station.					

(over)

INSTRUCTIONS

- (1) The first week of hunting begins with opening day and ends at the close of hunting 6 days later. Successive weeks follow the same pattern.
- (2) The goal is to survey a minimum of 25 percent of refuge hunters each week and to record data only from those who have completed their day's hunting. This information should be collected during each day of the week and in each area hunted in relative proportion to the hunter effort expended. When the 25 percent goal cannot be achieved, particular care should be taken to collect representative data.
- (3) Record the total number of hours the hunters spent hunting on the refuge.
- (4) List waterfowl species in decreasing order of numbers bagged. Sample entry: Mallard (61), Pintail (36), Redhead (16), Gadwall (11), Widgeon (6), Coot (4), Canada Goose (3), Green-winged Teal (1).
- (5) Record total numbers of waterfowl bagged.
- (6) Record total numbers of waterfowl reported knocked down but not recovered.
- (7) Total of Columns 5 and 6.
- (8) Estimate the total number of hunters who hunted on the refuge during the week, including hunters checked (Column 2).
$$\text{Column 8} = \frac{\text{Column 8}}{\text{Column 2}} \times \text{Column 7}.$$
- (9) Kill sample projected to 100 percent. Column 9 = $\frac{\text{Column 8}}{\text{Column 2}} \times \text{Column 7}.$

Refuge Ottawa, Cedar Point, West Sister Island Year 1973

Botulism Lead Poisoning or other Disease

Period of outbreak NONE
Period of heaviest losses _____

Losses:

	Actual Count	Estimated
(a) Waterfowl	_____	_____
(b) Shorebirds	_____	_____
(c) Other	_____	_____

Number Hospitalized	No. Recovered	% Recovered
(a) Waterfowl	_____	_____
(b) Shorebirds	_____	_____
(c) Other	_____	_____

Areas affected (location and approximate acreage) _____

Water conditions (average depth of water in sickness areas, reflooding of exposed flats, etc.) _____

Condition of vegetation and invertebrate life _____

Remarks _____

Kind of disease NONE
Species affected _____

Number Affected Species	Actual Count	Estimated
_____	_____	_____
_____	_____	_____
_____	_____	_____

Number Recovered _____

Number lost _____

Source of infection _____

Water conditions _____

Food conditions _____

Remarks _____

NONAGRICULTURAL COLLECTIO RECEIPTS, AND PLANTINGS

Form NR-7

Refuge Ottawa, Cedar Point, West Sister Island

Year 1973

Species	Collections and Receipts (Seeds, rootstocks, trees, shrubs)					Plantings (Marsh - Aquatic - Upland)					Cause of Loss		
	Amount (Lbs., bus., etc.)	(2) C or R	Date	Method or Source	Cost	(3) Total Amount on Hand	Location of Area Planted	Rate of Seeding or Planting	Amount Planted (Acres or Yards of Shoreline)	Amount and Nature of Propagules		Date	Survival
Perennial Rye	100 lbs.	on hand at beginning of				period destroyed by high water							
Alfalfa (Ranger)	130 lbs.	on hand at beginning of				period destroyed by high water							
Alsike Clover	120 lbs.	R	10-73	Purch.	42.00	100 lb.	F-8&12 dike	4 lb/acre	5		10/73	50%	weather
Ladino Clover	100 lbs.	R	10-73	Purch.	115.00	50 lb.	F-8&12 dike	10 lb/acre	5		10/73	50%	weather

(1) Report agronomic farm crops on Form NR-8

(2) C = Collections and R = Receipts

(3) Use "S" to denote surplus

Total acreage planted:

Marsh and aquatic

Hedgerows, cover patches 5 acres

Food strips, food patches

Forest plantings

Remarks:

CULTIVATED CROPS - HAYING - GRAZING

Refuge Ottawa County Ottawa State Ohio 1973

Cultivated Crops Grown	Permittee's Share Harvested		Government's Share or Return		Total Acreage Planted	Green Manure, Cover and Water-fowl Browsing Crops Type and Kind	Total Acreage
	Acres	Bu./Tons	Acres	Bu./Tons			
Buckwheat	27		2	36	2	Annual Rye Grass (for green manure and browse)	7
Soybean		405			27		
						Fallow Ag. Land.	

No. of Permittees: Agricultural Operations 1 Haying Operations 0 Grazing Operations 0

Hay - Improved (Specify Kind)	Tons Harvested	Acres	Cash Revenue	Grazing		Number Animals	AUM'S	Cash Revenue	ACREAGE
				1. Cattle	2. Other				
				1. Cattle	2. Other				
				1. Total Refuge Acreage Under Cultivation					36
Hay - Wild				2. Acreage Cultivated as Service Operation					

DIRECTIONS FOR PREPARING FORM NR--8'
CULTIVATED CROPS - HAYING - GRAZING

Report Form NR-8 should be prepared on a calendar-year basis for all crops which were planted during the calendar year and for haying and grazing operations carried on during the same period.

Separate reports shall be furnished for Refuge lands in each county when a refuge is located in more than one county or State.

Cultivated Crops Grown - List all crops planted, grown and harvested on the refuge during the reporting period regardless of purpose. Crops in kind which have been planted by more than one permittee or this Service shall be combined for reporting purposes.

Permittee's Share - Only the number of acres utilized by the permittee for his own benefit should be shown under the Acres column, and only the number of bushels of farm crops harvested by the permittee for himself should be shown under the Bushels Harvested column. Report all crops harvested in bushels or fractions thereof except such crops as silage, watermelons, cotton, tobacco, and hay, which should be reported in tons or fractions thereof.

Government's Share or Return - Harvested Show the acreage and number of bushels harvested for the Government of crops produced by permittees or refuge personnel. Unharvested Show the exact acreage and the estimated number of bushels of grain available for wildlife. If grazing is made available to waterfowl through the planting of grain, cover, green manure, grazing or hay crops, estimate the tonnage of green food produced or utilized and report under Bushels Unharvested column.

Total Acreage Planted - Report all acreage planted, including crop failures.

Green Manure, Cover and Waterfowl Grazing Crops Specify the acreage kind and purpose of the crop. These crops and the acreage may be duplicated under cultivated crops if planted during the year, or a duplication may occur under hay if the crop results from a perennial planting.

Hay - Improved - List separately the kinds of improved hay grown. Annual plantings should also be reported under Cultivated Crops, and perennial hay should be listed in the same manner at time of planting

Total Refuge Acreage Under Cultivation Report total land area devoted to agricultural purposes during the year.

Fish and Wildlife Service Branch of Wildlife Refuges
CULTIVATED CROPS - HAYING - GRAZING

Refuge Ottawa, Cedar Point, West Sister Island County Lucas State Ohio 1973

Cultivated Crops Grown	Permittee's Share Harvested		Government's Share or Return		Total Acreage Planted	Green Manure, Cover and Water-fowl Browsing Crops Type and Kind	Total Acreage
	Acres	Bu./Tons	Harvested	Unharvested			
	Acres	Bu./Tons	Acres	Bu./Tons			
Nothing to report from the Lucas County portion of the refuge.							
						Fallow Ag. Land.	

No. of Permittees: Agricultural Operations _____ Haying Operations _____ Grazing Operations _____

Hay - Improved (Specify Kind)	Tons Harvested	Acres	Cash Revenue	Grazing		Number Animals	AUM'S	Cash Revenue	ACREAGE
				1. Cattle	2. Other				
1. Total Refuge Acreage Under Cultivation									
2. Acreage Cultivated as Service Operation									

Hay - Wild

DIRECTIONS FOR PREPARING FORM NR--8'
CULTIVATED CROPS - HAYING - GRAZING

Report Form NR-8 should be prepared on a calendar-year basis for all crops which were planted during the calendar year and for haying and grazing operations carried on during the same period.

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Government's Share or Return - Harvested Show the acreage and number of bushels harvested for the Government of crops produced by permittees or refuge personnel. Unharvested Show the exact acreage and the estimated number of bushels of grain available for wildlife. If grazing is made available to waterfowl through the planting of grain, cover, green manure, grazing or hay crops, estimate the tonnage of green food produced or utilized and report under Bushels Unharvested column.

Total Acreage Planted - Report all acreage planted, including crop failures.

Green Manure, Cover and Waterfowl Grazing Crops Specify the acreage kind and purpose of the crop. These crops and the acreage may be duplicated under cultivated crops if planted during the year, or a duplication may occur under hay if the crop results from a perennial planting.

Hay - Improved - List separately the kinds of improved hay grown. Annual plantings should also be reported under Cultivated Crops, and perennial hay should be listed in the same manner at time of planting.

Total Refuge Acreage Under Cultivation Report total land area devoted to agricultural purposes during the year.

REFUGE GRAIN F CRT

Ottawa, Cedar Point, West Sister Island

January through December, 1973

bushels

Seventy ~~units~~ of rye on hand at beginning of period destroyed by high water and humidity.

No grain received during period.

No. of units removed B. F. Method of slash disposal.....
Cords.....

100

INSTRUCTIONS: Wildlife Refuges Manual, secs. 3252d, 3394b and 3395.

1973

ANNUAL REPORT OF PESTICIDE APPLICATION

(1) Date(s) of Application	(2) List of Target Pest(s)	(3) Location of Area Treated	(4) Total Acres Treated	(5) Chemical(s) Used	(6) Total Amount of Chemical Applied	(7) Application Rate	(8) Carrier and Rate	(9) Method of Application
May and June	Burdock and other broad-leafed leaves	Cooperative-farmed soybean fields	27	Amiben	81	3 lbs. ai/acre	water 40 gal/acre	ground power spray

10. Summary of results (continue on reverse side, if necessary)
target pests were controlled as desired

NY-334; 02-12-13; 10

The production of a copy of the report is possible in view of the fact that the report is in the possession of the Bureau of the Census.

NY-334; 02-12-13; 10

The report is in the possession of the Bureau of the Census and a copy can be made available to you if you so desire.

73-235; 06-19-73; JRF

The tractor-mounted extension mower makes it possible to mow slopes and berms of major dikes to limit brush encroachment.

73-17; 02-05-73; JRF

Dike repairs to patch muskrat holes is a continuing maintenance chore.



73-137; 10-16-73; JRF

Aerial view looking south from the lake front to illustrate loss of natural beaches from spring storms. Crane Creek on the left.

73-104; 10-18-73; JRF

Sand build-up on the beach after several blows - Sign was set on steel post at the waters edge about one week earlier.



NY-101-10-10 ; 10-10

There is no other information available at this time regarding the above-mentioned case. The Bureau is continuing to monitor the situation and will advise you if any further information is received.

NY-101-10-10 ; 10-10

Respectfully,
Sincerely,
Special Agent in Charge

73-61; 04-09-73; JRF

High water at the headquarters area during one of several spring storms - waters backed up Crane Creek and overflowed patrol road directly north of the office.

73-62; 04-09-73; JRF

Flooding occurred between the office and shop buildings - Our "island" kept shrinking in size.



73-18; 02-25-73; JRF

Looking west across the mouth of Crane Creek during high water stage. Lake Erie elevation at 572.78.

73-147; 11-01-73; JRF

Same view as above (73-18) following three day blow from the southwest - Lake Erie elevation at 570.82.



73-193; 04-09-73; JRF

Garage at the Darby Unit - continual flooding of the unit forced abandonment of the residence during the year.

72-230; 11-16-72; JRF

Flood debris left on the lawn of the residence at the Darby Unit following the first major storm.



12-11-1964

The above mentioned items are reported
to be in the possession of the following persons.

12-11-1964

The above mentioned items are reported
to be in the possession of the following persons.

72-327; 11-19-72; JRF

The access road to Cedar Point Refuge was repeatedly overtopped from waters of Maumee Bay during each storm.

73-50; 04-06-73; JRF

Repeated flooding caused serious erosion of the roadway which now has become impassable to vehicles.



73-132; 10-15-73; JRF

Storm damage to lake front dike of east pool at Cedar Point Refuge.

73-41; 03-22-73; JRF

The most damaged section of the lake front dike at the east end of Cedar Point Refuge finally washed out in the spring.

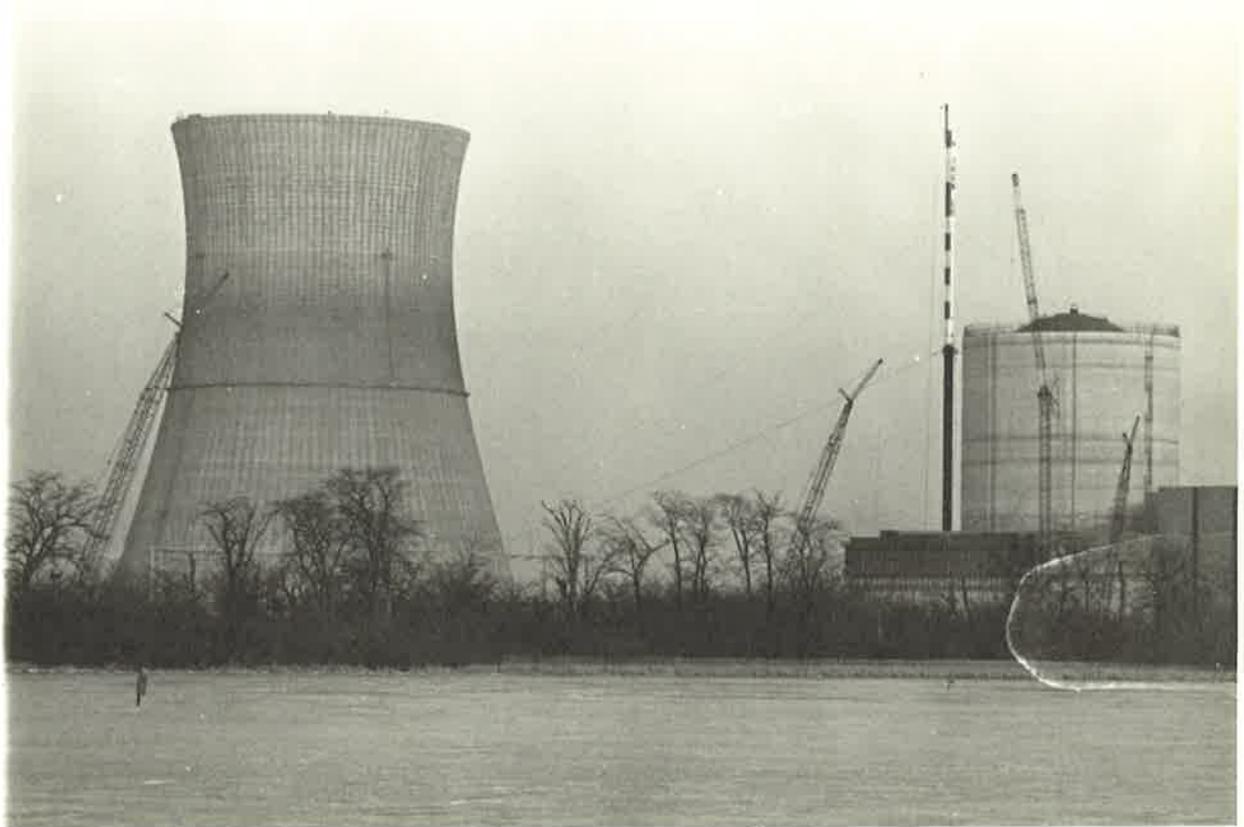
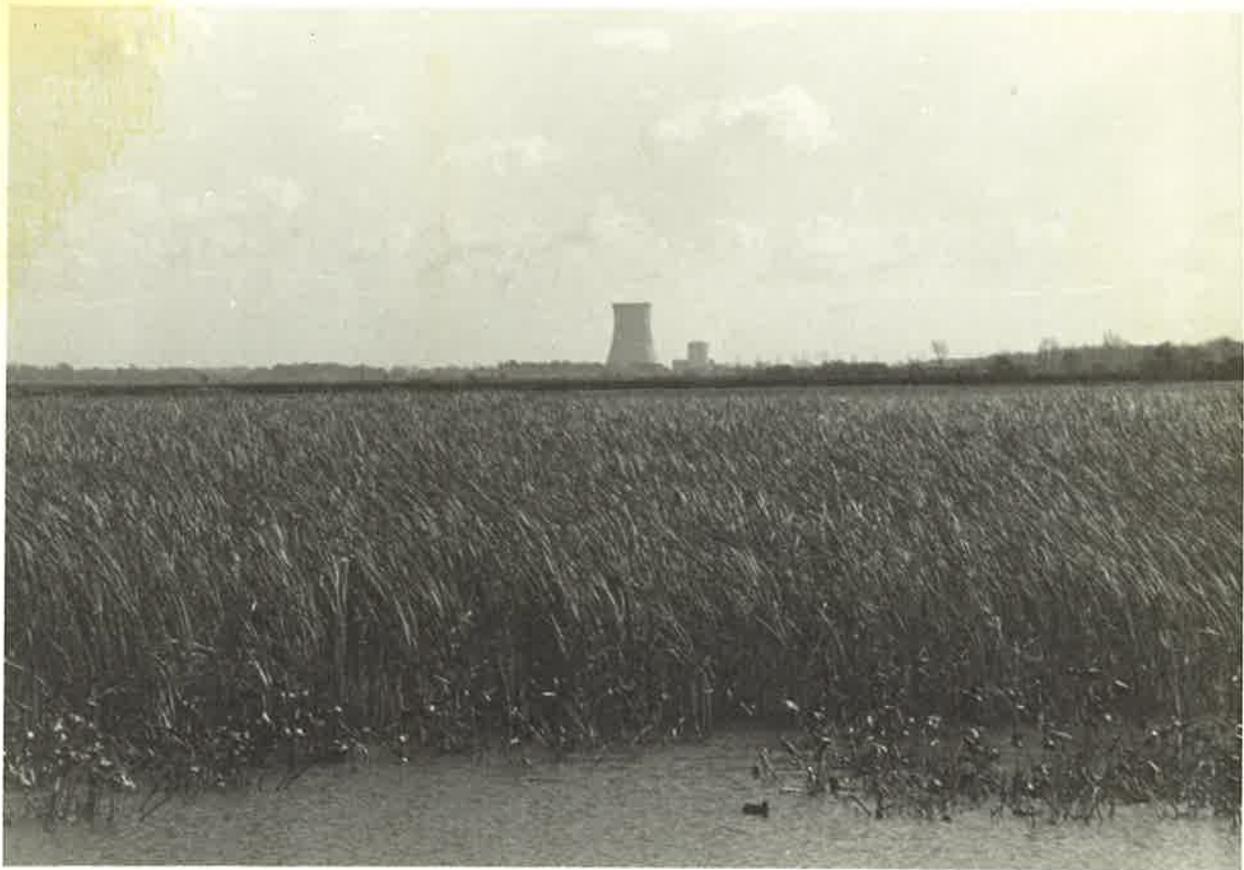


73-149; 11-01-73; JRF

The cooling tower and the reactor building for the nuclear generating plant at the Navarre Unit are very conspicuous features on the landscape of Ottawa County. Structures are viewed to the east across Pool 1 on Ottawa Refuge and are approximately six miles distant.

73-2; 01-31-73; JRF

The structures are awesome from close by. The view is to the west across Pool 2 of the Navarre Unit.

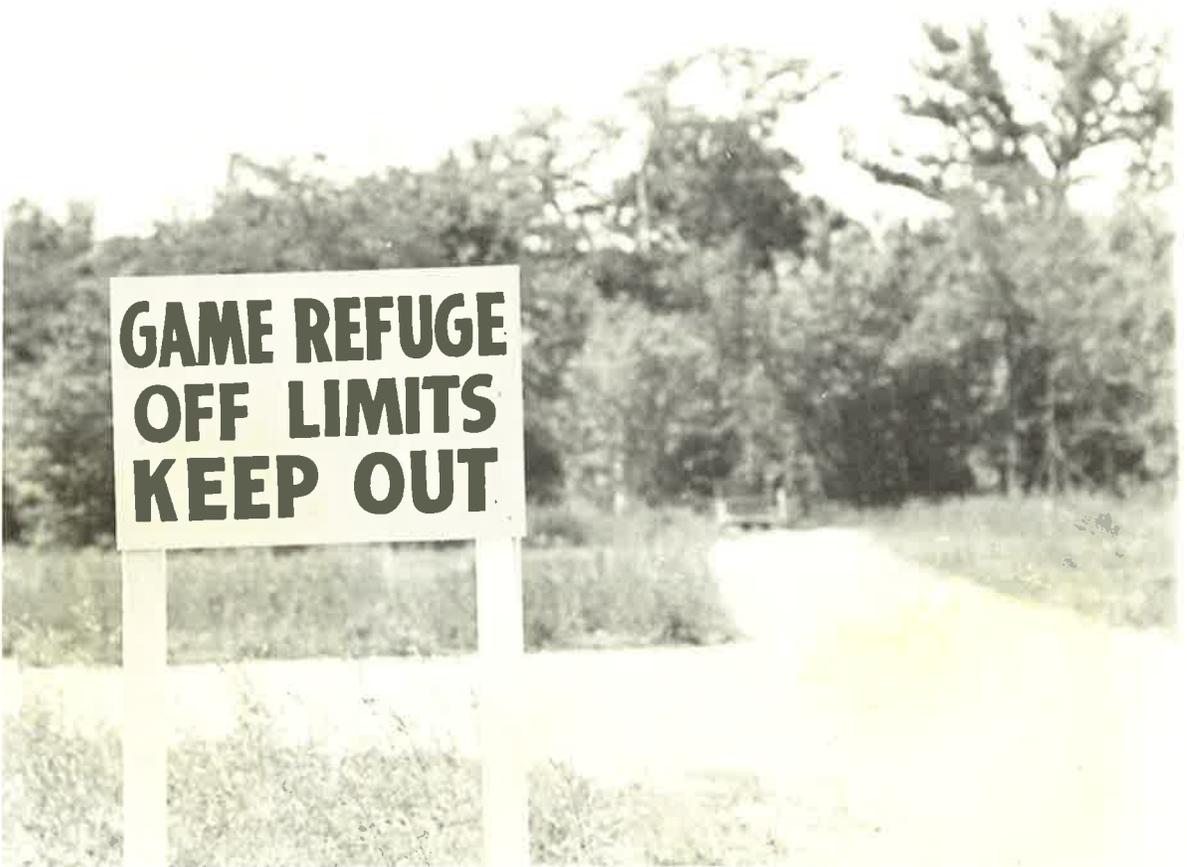


73-27; 02-13-73; JRF

One of two pumping structures with 50 HP electric motors installed by Toledo Edison Company for our use in water management of the Navarre Unit.

72-231; 06-07-72; JRF

Non-regulation sign at Navarre Unit. Sign was constructed and installed by power company personnel to keep construction workers out of the refuge area.



72-387; 05-11-72; JMC

Discussions of projects during session of Environmental Education workshop for teachers hosted by Ottawa Refuge.

73-23; 02-09-73; JRF

Ass't Refuge Manager Carroll presents on-site program for local school group. General information lecture in office is followed with hike on interpretive wildlife trails.



13-20 10-10-10

There were about 100 people there.

13-20 10-10-10

and other things to make the food still better
and better at the same.

73-28; 02-16-73; JRF

Winter scene along interpretive foot trail.

73-143; 10-24-73; JRF

Wood chips used to surface interpretive foot trail through wet portions of the woods.



73-122; 10-14-73; JRF

Sunday use of the visitor parking lot located at the start of the interpretive foot trails.

73-136; 10-16-73; JRF

Excellent stands of smartweed on idle croplands were flooded in August and received heavy waterfowl use.



73-59; 04-06-73; JRF

1973 was another good goose production year at Ottawa - the majority of successful nests were in fiberglass nest structures in Pools 1 and 2.

73-26; 02-13-73; JRF

The bald eagle nest was again active in 1973, but again no young were hatched.



73-153; 11-07-73; JRF

Numerous complaints were received from local area farmers that geese were harvesting soybeans this fall ahead of the combine.

73-150; 11-07-73; JRF

THE END



